

**MFP** 

# TT-073113\_3

Models: MX2300N, MX2600N, MX2610N, MX2700N, MX3100N, MX3110N, MX3610N, MX4100N, MX4101N, MX4110N, MX4111N, MX4501N, MX5001N, MX5110N, MX5111N, MX6240N, MX7040N

Priority Medium

- **Date:** July 2013
- Subject: Configuring a Remote Output Queue for Sharp MFPs on the IBM AS400
- **Description:** 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.

#### Configuring a Remote Output Queue for Sharp MFPs on the IBM AS400 Version 1.1

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 Queue) CRTDEVPRT – (Create Device Description – Printer)

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TECHNICAL TIP 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

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:	

■ Top Page	TCP/IP Ne	tWare EtherTalk NetBEUI
▶ Status	Submit(U)	
► Address Book	Submit(0)	
Document Operations	TCP/IP Settings	
▶ Job Programs	TOD #D	
► User Control		Enable 💌
System Settings	<ul> <li>DHCP/BOOTP:</li> <li>RARP:</li> </ul>	Disable V
✓Network Settings	- IP Address:	172.29.105.97 T
Quick Settings	Subnet Mask:	
General Settings	Subhet Mask.	255.255.254.0
Protocol Settings	Default Gateway:	172.29.104.1
Services Settings		
Print Port Settings	Use FTP/LPD Banner:	Disable 💙

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

🕻 🍄 🔠 🖌 🍘 Internet Exp	olorer cannot dis 🥖 Print Port Settings - MX-5 🗙 👘 🔹 🔝 🔪 🖶 🔹 📴 Page 👻 🎯 Tools 🕚
SHARP	User Name: Administrator Logout(L)
MX-5500N	Print Port Settings
	Update(R)
■ Top Page	LPD RAW
▶ Status	Submit(U)
Address Book	Submit(0)
Document Operations	LPD Settings
▶ Job Programs	
User Control	LPD: Enable
System Settings	Timeout: 0 seconds(0-900)
<ul> <li>Network Settings</li> </ul>	Submit(U)
	😜 Internet 🔍 100%

#### 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 <b>AS400</b> .	
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.

	Sign-on Information	System:	A5400
Previous sign-on			
Press Enter to continue.			
F3=Exit sign-on request	F9=Change password		

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.

AIN	OS/400 Ma	in Menu	System:	<b>NS400</b>
Select one of	the following:		System.	ASTOO
1. User t 2. Office				
4. Files,	libraries, and folders			
6. Commun	ications			
8. Proble 9. Displa	m handling y a menu			
11. Client	Access/400 tasks			
90. Sign o	ff			
Selection or c	ommand			

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 **<Shift**> key in conjunction with the function key, i.e. **<Shift**> + **<F1**> = **<F13**>, **<Shift**> + **<F2**> = **<F14**> ~ **<Shift**> + **<F12**> = **<F14**> ~ **<Shift**> + **<F12**> = **<F24**>. 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 **<F4**> 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:	35400
Select one of the :	following:	System:	A3400
1. User tasks			
2. Office tas	cs		
4. Files, lib:	raries, and folders		
6. Communicat:	ions		
8. Problem ha	ndling		
9. Display a m	nenu		
11. Client Acc	ess/400 tasks		
90. Sign off			
Selection or comman	nd		
===> <u>VFYTCPCNN</u>			
P2=Pwit P4=Dromp	t F9=Retrieve F12=Cancel F23=	Set initial men	

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 (VFYTCPCNN)
Type choices, press Enter.	
Remote system	<u>'172.29.105.97'</u>
F3=Exit F4=Prompt F5=Refresh F13=How to use this display	Bottom F10=Additional parameters F12=Cancel F24=More keys

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

Verifying connection to host system 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
===>_
F3=Exit F4=Prompt F9=Retrieve 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.

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MAIN	OS/400 Main Menu	System: A	\$400
Select one of the followin	ng:	System. A	.5400
<ol> <li>User tasks</li> <li>Office tasks</li> </ol>			
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=R	Retrieve F12=Cancel F23=S	et initial menu	
PING reply 1 from 172.29.1	105.97 took 2 ms. 256 bytes.	TTL 255.	+

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. + Round-trip (in milliseconds) min/avg/max = 1/1/2Connection 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.
- 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.
- 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 (`) 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	ի
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.
- 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.
- 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.
- 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.

- 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:	
Host/DNS name (if used)	
IP address:	

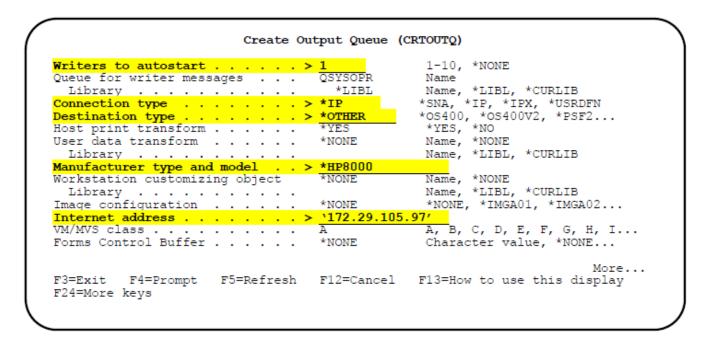
a) Place your cursor on the start of the command line and type "**CRTOUTQ**" and press the **<F4>** key and the following screen will appear:

Ype choices, press Enter.	itput Queue (C	110012)
Dutput queue		Name, *CURLIB Number, *NONE Time Time *FIFO, *JOBNBR
73=Exit F4=Prompt F5=Refresh 713=How to use this display 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.

Dutput queue			Name Name, *CURLIB	
Maximum spooled file size: Number of pages Starting time Ending time + for more val	:: =		Number, *NONE Time Time	
)rder of files on queue Remote system			*FIFO, *JOBNBR	
Remote printer queue	> 'lr	5r		
P3=Exit F4=Prompt F5=Refr P13=How to use this display			parameters B	Bottom 12=Cancel

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.



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.

Destination options		'XAIX'	
Print separator page		*YES	*YES, *NO
User defined option		*NONE	Option, *NONE
	more values		
User defined object:			
Object		*NONE	Name, *NONE
Library			Name, *LIBL, *CURLIB
Object type			*DTAARA, *DTAQ, *FILE
User driver program		*NONE	Name, *NONE
Library		+	Name, *LIBL, *CURLIB
Spooled file ASP		*SYSTEM	*SYSTEM, *OUTQASP
Text 'description' .		Color and Bl	.ack & White Sharp MX-5500N'
F3=Exit F4=Prompt F24=More keys	F5=Refresh	F12=Cancel	More F13=How to use this display

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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:
 Chiest MXEE000 type \*OUTO created in library OUSPEXE

```
Object MX5500Q type *OUTQ created in library QUSRSYS.
```

```
MAIN
                               OS/400 Main Menu
                                                             System: AS400
 Select one of the following:

    User tasks

      2. Office tasks
      4. Files, libraries, and folders
      6. Communications
      8. Problem handling
      9. Display a menu

    Client Access/400 tasks

     90. Sign off
 Selection or command
 ===>
 F3=Exit F4=Prompt 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.
- 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"

Sharp Imaging and Information Company of America Sharp Plaza Mahwah, NJ 07495-1163 • email: idnc@sharpsec.com 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**".

	End Writer (ENDWI	IR)	
Type choices, press Enter.			
Writer	> MX55000 > *IMMED	Name, *SYSVAL, *ALL *CNTRLD, *IMMED, *PAGEEND	
		Battan	
F3=Exit F4=Prompt F5=Refre F24=More keys	esh F12=Cancel	Bottom F13=How to use this display	

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

Writer XXXXX/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:

    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 followi	ng:	System.	A3400
1. User tasks 2. Office tasks			
<ol><li>Files, libraries,</li></ol>	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.

Device description	> MX5500Q	Name
Device class	> *VRT	*LCL, *RMT, *VRT, *SNPT, *LAN
Device type	> 3812	3287, 3812, 4019, 4201
Device model	> 1	0, 1, 2, 3, 4, 10, 13, 301
LAN attachment	*LEXLINK	*LEXLINK, *IP, *USRDFN
Switched line list		Name
+ for more values		
LAN remote adapter address		00000000001-FFFFFFFFFFFF
Adapter type	*INTERNAL	*INTERNAL, *EXTERNAL
Adapter connection type	*PARALLEL	*PARALLEL, *SERIAL
Emulated twinaxial device		3812, 5219, 5224, 5256
Advanced function printing	*NO	*NO, *YES
AFP attachment	*WSC	*WSC, *APPC
Port number		0-65535
Switch setting		0, 1, 2, 3, 4, 5, 6
Local location address		00-FE

Sharp Imaging and Information Company of America Sharp Plaza Mahwah, NJ 07495-1163 • email: idnc@sharpsec.com 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.

Type choices, press En	ter					
Auxiliary printer						*YES, *NO
Emulating ASCII device					*NO	*NO, *YES
Physical attachment .						*DIRECT, *PTT, *MODEM
Online at IPL					> *NO	*YES, *NO
Attached controller .						Name
Language type					*SYSVAL	*SYSVAL, AGB, AGI, ALI
Print quality					*STD	*STD, *DRAFT, *NLQ
Font:						
Identifier	•			•	> 11	3, 5, 11, 12, 13, 18, 19
Point size						000.1-999.9, *NONE
Form feed						
Separator drawer					*FILE	1-255, *FILE
Separator program						
Library						Name, *LIBL, *CURLIB
Number of drawers						1, 2, 3
Printer error message		•	• •	•	*INFO	*INQ, *INFO
						More

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.

```
OS/400 Main Menu
MAIN
                                                            System:
                                                                      AS400
Select one of the following:

    User tasks

    2. Office tasks
    4. Files, libraries, and folders
    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
Output queue MX5500Q in QUSRSYS already 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:

	options, p		ter.	ork with All W			
	Change 3= Work with o			5=Work with	6=Release	7=Display	messages
Opt	Writer	Type	Device	Queue	Library	Status	Form Type
	MX5500Q	RMT		MX5500Q	QUSRSYS		*ALL
Para		options	2, 3, 4	4, 6 or comman	d		Bottom
===>				1 700 61	t printer wr		

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	Creation -	36400
Select one of the foll	owing:	System:	AS400
<ol> <li>User tasks</li> <li>Office tasks</li> </ol>			
4. Files, librari	es, and folders		
6. Communications			
8. Problem handli 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 04229	0/QSPLJOB/MX5500Q lsubmitte	ed to job queue QSPL i	n 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=		ange 3=Hol	d 4=Delete k with print:		6=Re	elease	7=Messa	iges
			Device or			Total	Cur	
pt	File		Queue	User Data			Page	Copy
-	SEPPAG				RDY			1
_	SEPPAG SEPPAGNEW		_		RDY RDY			1
-	OPSECO		_	PRTOAUT				1
2		PATRICK						î
	QPJOBLOG	PATRICK	QEZJOBLOG			1		1
	QPDSPJOB	PATRICK	QEZDEBUG		RDY	7		1
_		PATRICK	and the second se		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.

Type choices, press Enter			
Spooled file	>	QPJOBLOG	Name, *SELECT
Job name			Name, *
User			Name
Number			
Spooled file number			1-999999, *ONLY, *LAST
Select files for:			
User		*CURRENT	Name, *CURRENT, *ALL
Print device			Name, *ALL, *OUTQ
Form type			Form type, *ALL, *STD
User data			User data, *ALL
Printer			Name, *SAME, *OUTQ
Print sequence		* SAME	*SAME, *NEXT
Form type		*STD	Form type, *SAME, *STD
Copies		1	1-255, *SAME
Restart printing			Number, *SAME, *STRPAGE
Volume			Identifier, *SAME, *NONE More

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

Type choices, press Ent	er.		
Diskette label		*SAME	Character value, *SAME
	Addition	al Parameters	
Output queue	>	*DEV	Name, *SAME, *DEV
Library			Name, *LIBL, *CURLIB
File separators			0-9, *SAME
Page range to print:			
Starting page		1	Number, *SAME, *ENDPAGE
Ending page			Number, *SAME, *END
File becomes available			*SAME, *JOBEND, *FILEEND
Save file	>	*YES	*SAME, *NO, *YES
Output priority			1-9, *SAME, *JOB
User data			User data, *SAME
Align page		*NO	*SAME, *NO, *YES
Print quality			*SAME, *STD, *DEVD, *DRAFT More

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).

-	File SEPPAG SEPPAG SEPPAGNEW		PRT 01 PRT 01 PRT 01	User Data	Sts RDY RDY RDY	Pages 44 14 14	Cur Page	Copy 1 1 1
	OPSECQ OPJOBLOG	PATRICK PATRICK		PRTQAUT QPADEV0005		3 6		1
-	<b>QPJOBLOG</b>	PATRICK PATRICK PATRICK	QEZJOBLOG QEZDEBUG QEZDEBUG	QPADEV0005	RDY RDY RDY	1		1 1 1 1

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.

Device orTotalCurFileUserQueueUser DataStsPagesPageCopyQPJOBLOGPATRICKMX5500QQPADEV0005MSGW61SEPPAGPATRICKPRT_01RDY441SEPPAGPATRICKPRT_01RDY141SEPPAGNEWPATRICKPRT_01RDY141QPSECQPATRICKPRT_01PRTQAUTRDY31QPJOBLOGPATRICKQEZJOBLOGQPADEV0005RDY11									
QPJOBLOGPATRICKMX5500QQPADEV0005MSGW61SEPPAGPATRICKPRT_01RDY441SEPPAGPATRICKPRT_01RDY141SEPPAGNEWPATRICKPRT_01RDY141QPSECQPATRICKPRT 01PRTQAUTRDY31							Total	Cur	
SEPPAGPATRICKPRT_01RDY4414SEPPAGPATRICKPRT_01RDY1414SEPPAGNEWPATRICKPRT_01RDY1414QPSECQPATRICKPRT_01PRTQAUTRDY314	Opt	File	User					Page	Copy
SEPPAGPATRICKPRT_01RDY1414SEPPAGNEWPATRICKPRT_01RDY1414QPSECQPATRICKPRT_01PRTQAUTRDY314	9	<b>QPJOBLOG</b>	PATRICK	MX5500Q	QPADEV0005	MSGW	6		1
SEPPAGNEW PATRICK PRT_01 RDY 14 1 QPSECQ PATRICK PRT_01 PRTQAUT RDY 3 1	8	SEPPAG	PATRICK	PRT 01		RDY	44		1
QPSECQ PATRICK PRT 01 PRTQAUT RDY 3		SEPPAG	PATRICK	PRT 01		RDY	14		1
QPSECQ PATRICK PRT 01 PRTQAUT RDY 3		SEPPAGNEW	PATRICK	PRT 01		RDY	14		1
		QPSECQ	PATRICK	PRT 01	PRTQAUT	RDY	3		1
		QPJOBLOG	PATRICK	QEZJOBLOG	QPADEV0005	RDY			1
OPDSPJOB PATRICK OEZDEBUG RDY 7	_	OPDSPJOB	PATRICK	OEZDEBUG		RDY	7		1
QPSRVDMP PATRICK QEZDEBUG RDY 5 1	-	OPSRVDMP	PATRICK	QEZDEBUG		RDY	5		1
VESKVDME FRIKICK VEZDEDUG KDI J					OPADEV0005	RDY	2		1
	-						5.5	Mc	re
QPDSPJOB PATRICK QEZDEBUG RDY 7		QPJOBLOG QPDSPJOB QPSRVDMP	PATRICK PATRICK PATRICK	QEZJOBLOG QEZDEBUG QEZDEBUG	QPADEV0005	RDY RDY RDY	1 7		
						RDY			1
							2		1
		<b>ÖFJORTOG</b>	PATRICK	QE200BTOG	QPADEV0005	RDI	4	Mo	1
QPJOBLOG PATRICK QEZJOBLOG QPADEV0005 RDY 2				2, 3 or comman				MC	

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.

Job	PATRICK	Number	 1
Type options, press En 2=Change status 5=		description	
Opt Status Descrip This file was	tion printed and save	d.	
			Bottom

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.

Use	Work with Printing Status : QPADEV0005 File: QPJOBLOG er: PATRICK Number: 1 ber: 043388 User data: QPADEV0005
	options, press Enter. Change status 5=Display detailed description
•	
pt: 2:	Change Status
<u> </u>	Select one of the following:
	<ol> <li>Print this file and save it again</li> <li>Print this file and delete it</li> </ol>
	Selection 1
om : == : 3= :	F6=Display details F12=Cancel

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

User	: QPADEV0005 : PATRICK : 043388		1
Type options, pre 2=Change status	ss Enter. 5=Display detaile	ed description	
Opt Status De (Status is pend			
			Bottom

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

Job	PATRICK	Number	 1
Type options, press Ent			 •
2=Change status 5=D:		description	
pt Status Descript:	ion		
_ This file was p	rinted and save	d.	
			Bottom
ommand			Bottom

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.

	Send 2=Change 3=Hold 4=Delete 5=Display 6=Release Attributes 9=Work with printing status					7=Messa	iges	
			Device or			Total	Cur	
pt	File	User		User Data			Page	Copy
2	<b>QPJOBLOG</b>	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
100	QPDSPJOB	PATRICK	QEZDEBUG		RDY	7		1
	QPSRVDMP	PATRICK	QEZDEBUG		RDY	5		1
	QPJOBLOG	PATRICK	QEZJOBLOG	QPADEV0005	RDY	2		1
_							Mo	re
ara	meters for d	options 1 2	, 3 or comman	hd				

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.

Form feed		*DEVD	*SAME, *DEVD, *CONT, *CUT
Source drawer	>	2	1-255, *SAME, *E1, *FORMDF
Print fidelity		*CONTENT	*SAME, *ABSOLUTE, *CONTENT
Print on both sides		*YES	*SAME, *NO, *YES, *TUMBLE
Pages per side		1	1-4, *SAME
Page definition		*SAME	Name, *SAME, *NONE
Library			Name, *LIBL, *CURLIB
Form definition		*NONE	Name, *SAME, *NONE, *DEVD
Library			Name, *LIBL, *CURLIB
AFP Characters		*SAME	Coded font name, *SAME, *NONE
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

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.

		Work with Pr	inting Status	3		
User .	: :	QPADEV0005 PATRICK 043388	File Number . User data		:	QPJOBLOG 1 QPADEV0005
	ons, press Ente e status 5=D:		description			
2-chang	e status J-D	.spiay decailed	. description			
pt :		Chan	ge Status			
2:						
: Se	lect one of the	following:				
- :		s file and sav s file and del				
: Se	lection					
com :	1					
	=Display detail	s F12=Cancel				
73= :	Dispiny acourt	.5 112 000001				
<mark>:</mark>						

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 **WSCST**s, see the document "*Creating and Compiling WSCST 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".

		End	Writer (ENDW	IR)
Type cho:	ices, press 1	Enter.		
Writer . When to d	end writer .	· · · · · · · · · · · · · · · · · · ·	► MX5500Q ► *IMMED	Name, *SYSVAL, *ALL *CNTRLD, *IMMED, *PAGEEND
				Bottom
F3=Exit F24=More		F5=Refresh	F12=Cancel	F13=How to use this display
	-			

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

Public binn in form			
Publishing informa Support duplex .		*DUPLEX *SAME	, *SIMPLEX, *DUPLEX
Support color .			, *NOCOLOR, *COLOR
Pages per minute			67, *SAME, *UNKNOWN
Pages per minute		45 1-327	67, *SAME, *UNKNOWN
Location			
Text 'description'		'SHARP Color & Blac	k & White MFP MX-5500N'
		al Parameters	
Remote network ide			*SAME, *NETATR, *NONE
Workstation custom			*SAME, *NONE
	>	QGPL Name,	*LIBL, *CURLIB
<mark>Library</mark>			
Library			

- 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/OSPLJOB/{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.

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

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.

#### TT-073113\_3

User profile		JERRY	Name
User password		*SAME	Character value, *SAME, *NONE
Set password to expired		*NO	*SAME, *NO, *YES
Status		*ENABLED	*SAME, *ENABLED, *DISABLED
User class		*SECOFR	*SAME, *USER, *SYSOPR
Assistance level		*ADVANCED	*SAME, *SYSVAL, *BASIC
Current library		*CRTDFT	Name, *SAME, *CRTDFT
Initial program to call		*NONE	Name, *SAME, *NONE
Library			Name, *LIBL, *CURLIB
Initial menu		MAJOR	Name, *SAME, *SIGNOFF
Library		*LIBL	Name, *LIBL, *CURLIB
Limit capabilities			*SAME, *NO, *PARTIAL, *YES
Text 'description'	s 19	'Privileged	User'
F3=Exit F4=Prompt F5=Refre F24=More keys	esh	F12=Cancel	More F13=How to use this display

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

User profile					Name
User password		•		*SAME	Character value, *SAME, *NONE
Set password to expired				*NO	*SAME, *NO, *YES
Status				*ENABLED	*SAME, *ENABLED, *DISABLED
User class				*SECOFR	*SAME, *USER, *SYSOPR
Assistance level				*ADVANCED	*SAME, *SYSVAL, *BASIC
Current library	•	•		*CRTDFT	Name, *SAME, *CRTDFT
Initial program to call				*NONE	Name, *SAME, *NONE
Library					Name, *LIBL, *CURLIB
Initial menu				MAJOR	Name, *SAME, *SIGNOFF
Library				*LIBL	Name, *LIBL, *CURLIB
Limit capabilities				*NO	*SAME, *NO, *PARTIAL, *YES
Text 'description'	•	•	• •	'Privileged	User'
F3=Exit F4=Prompt F5 F24=More keys	=Re	fr	esh	F12=Cancel	More F13=How to use this display

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.

Turne chaiges press Ent			
Type choices, press Ent	er.		
Owner		*USRPRF	*SAME, *USRPRF, *GRPPRF
Group authority		*ALL	*SAME, *NONE, *ALL
Group authority type .		* PRIVATE	*PRIVATE, *PGP, *SAME
Supplemental groups .		*NONE	Name, *SAME, *NONE
+ for mo			
Accounting code		*BLANK	
Document password			Name, *SAME, *NONE
Message queue			Name, *SAME, *USRPRF
Library		QUSRSYS	Name, *LIBL, *CURLIB
Delivery			*SAME, *NOTIFY, *BREAK
Severity code filter .			0-99, *SAME
Print device	>	MX5500Q	Name, *SAME, *WRKSTN, *SYSVAL
Output queue		*DEV	Name, *SAME, *WRKSTN, *DEV
Library			Name, *LIBL, *CURLIB
Attention program		*SYSVAL	Name, *SAME, *SYSVAL
Library			Name, *LIBL, *CURLIB
			More

 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.

		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
7.	Work Management Commands		CMDWRKMGT
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
electi	on or command		
==>			
	F4=Prompt F9=Retrieve F12=Cancel	F13=Information As:	sistant
	400 Main menu <mark>ofile JERRY changed.</mark>		

#### **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 (CHG	PRF)
Type choices, press Enter.			
Assistance level Current library Initial program to call . Library Initial menu Library Text 'description'	   		
Keyboard buffering Job description Library Document password	· · · · · ·	*SYSVAL QDFTJOBD QGPL *SAME	*SAME, *SYSVAL, *NO Name, *SAME Name, *LIBL, *CURLIB Name, *SAME, *NONE
F3=Exit F4=Prompt F5=Re F24=More keys	fresh	F12=Cancel	More F13=How to use this display

b) Press the <**PgDn**> key once. 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.

Type choices, press Enter.		
Message queue > Library > Delivery	QUSRSYS *NOTIFY 0 <u>MX5500Q</u>	Name, *SAME, *USRPRF Name, *LIBL, *CURLIB *SAME, *NOTIFY, *BREAK 0-99, *SAME Name, *SAME, *WRKSTN, *SYSVAL Name, *SAME, *WRKSTN, *DEV
Library		Name, *LIBL, *CURLIB Name, *SAME, *NONE Name, *LIBL, *CURLIB Name, *SAME, *SYSVAL, *HEX
Library		Name, *LIBL, *CURLIB *SAME, *SYSVAL *SAME, *SYSVAL *SAME, *SYSVAL, *HEX
F3=Exit F4=Prompt F5=Refresh F24=More keys	F12=Cancel	<b>More</b> F13=How to use this display

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

User profile { *your name*} changed.

IAJOR	Major (	Command Groups		AS400
Select one of th	e following:		System.	A5400
1. Select C	ommand by Name			SLTCMD
2. Verb Com	mands			VERB
3. Subject	Commands			SUBJECT
4. Object M	anagement Commands			CMDOBJMGT
5. File Com	mands			CMDFILE
6. Save and	Restore Commands			CMDSAVRST
7. Work Man	agement Commands			CMDWRKMGT
	agement Commands			CMDDTAMGT
9. Security	Commands			CMDSEC
10. Print Co	mmands			CMDPRT
11. Spooling				CMDSPL
	ontrol Commands			CMDSYSCTL
13. Program	Commands			CMDPGM
				More
Selection or com	mand			
===>				
F3=Exit F4=Pro		F12=Cancel	F13=Information As	sistant
F16=AS/400 Main				
User profile PAT	RICK changed.			

## **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

Libra Source Source Option	file member type lescription' .	· · · · · · · · >	QGPL *SELECT TXT *BLANK	Name, *PRV Name, *LIBL, *CURLIB, *PRV Name, *PRV, *SELECT Name, *SAME, BAS, BASP *BLANK, ' ', 2, 5, 6
F3=Exit F24=Mor	-	F5=Refresh	F12=Cancel	Bottom F13=How to use this display

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.

Wo	rk with Members Using SEU	
Position to	KTSRC Library	· · · · · ·
Ype options, press Enter. 2=Edit 4=Delete	5=Browse 6=Print	
pt Member Type	Text	
6 ALLSHARP	Master template source code	for Sharp MFPs
BOB	Source code modified from HP AR275 source code Custom folder for 'bob' Color Dragon Color Dragon with Finisher CUSTOM FOLDER Master template source code	
F3=Exit F5=Refresh F15=Sort by date	F12=Cancel F17=Subset	More F14=Display date

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	
MEMBER ALLSHARP	
SEQNBR*+ 1+ 2+ 3+ 4+ 5+ 6+ 7	
100 :WSCST DEVCLASS=TRANSFORM. /** SHARP GENERIC WSCST **/	
200 /** MODIFY AS NEEDED FOR SPECIFIC MODELS **/	
300 TRNSFRMTBL.	
400 : PRTDTASTRM	
500 DATASTREAM=HPPCL5.	
600 :NOPRTBDR	
700 OPTION=TOP	
800 ORIENT=PORTRAIT	
900 DATA = $240$ .	
1000 :NOPRTBDR	
1100 OPTION=LEFT	
1200 ORIENT=PORTRAIT	
1300 DATA = 360.	
1400 :NOPRTBDR	
1500 OPTION=RIGHT	
1600 ORIENT=PORTRAIT	
1700 DATA = 360.	
1800 :NOPRTBDR	
1900 OPTION=BOTTOM	
2000 ORIENT=PORTRAIT	
2100 DATA = 240.	
2200 :NOPRTBDR	
2300 OPTION=TOP	
2400 ORIENT=LANDSCAPE	
2500 DATA = 240.	
2600 :NOPRTBDR	
2700 OPTION=LEFT	
2800 ORIENT=LANDSCAPE	
2900 DATA = 288.	
3000 :NOPRTBDR	
3100 OPTION=RIGHT	
3200 ORIENT=LANDSCAPE	
3300 DATA = 288.	
3400 :NOPRTBDR	
3500 OPTION=BOTTOM	
3600 ORIENT=LANDSCAPE	
3700   DATA = 240.	
3800 :INITPRT	
3900 DATA ='1845'X.	
4000 :RESETPRT 4100 DATA ='1B45'X.	
4100 DATA ='1B45'X. 4200 :BELL	
4300 DATA ='07'X.	
4400 :SPACE	
4500 DATA ='20'X. 4600 :CARRTN	
4700 DATA ='0D'X.	
4700 DATA - 0D X. 4800 :FORMFEED	
$4900 \qquad DATA = 'OC'X.$	
5000 :LINEFEED	
5100 DATA ='0A'X.	
5200 :VERRMOV	
5300 DIRECTION=UP	

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.

Device or Total Cur Opt File User Queue User Data Sts Pages Page Co QPSECQ PATRICK M355N PRTQAUT SAV 2 <u>4 QPSUPRTF PATRICK MX5500Q SAV 12</u> _ QPJOBLOG PATRICK MX5500 QPADEV0005 SAV 6	8=			d 4=Delete k with printi		6=R6	elease	7=Messa	ges
QPSECQPATRICKM355NPRTQAUTSAV24QPSUPRTFPATRICKMX5500QSAV12				Device or			Total	Cur	
4 QPSUPRTF PATRICK MX5500Q SAV 12	)pt						2	Page	Сору
		~ ~			~		_		1
_ QPJOBLOG PATRICK MX5500 QPADEV0005 SAV 6	4								1
	_	QPJOBLOG	PATRICK	MX5500	QPADEV0005	SAV	6		1
Bott									

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

1=		ange 3=Hol	d 4=Delete k with print	5=Display ing status	6=R	elease	7=Messa	iges
0pt _ _	QPSECQ		M355N	User Data PRTQAUT QPADEV0005	SAV	Pages 2	Cur Page	Copy 1 1
===>	ENDWTR WTR	(MX5500Q) OF	, 3 or comma TION(*IMMED)	nd =Cancel F22		tong	E 24=More	Bottom

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.

1=	options, p Send 2=Ch Attributes	ange 3=Hol	d 4=Delete k with print:	5=Display ing status	6=R6	elease	7=Messa	iges
0pt _ _	QPSECQ		Device or Queue M355N MX5500	~	SAV	Pages 2	Cur Page	Copy 1 1
	meters for DLTDEVD DE		, 3 or comman	nd			E	Bottom

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.

1=S	Send 2=Ch	ress Enter. ange 3=Hol	<b>rk with All S</b> d 4=Delete k with printi	5=Display		elease	7=Messa	iges
_	File QPSECQ QPJOBLOG	User PATRICK PATRICK		User Data PRTQAUT QPADEV0005	SAV	Pages 2	Cur Page	Copy 1 1
===>	CHGPRF PRT	DEV (*WRKSTN)	, 3 or comman <mark>OUTQ(*WRKSTN</mark> View 2 F12=	1)	=Print	ters F	E 24=More	ottom keys

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

Type options, press Enter. 1=Send 2=Change 3=Hold 8=Attributes 9=Work		4=Delete 5=Display with printing status		6=Release		7=Messages		
)pt _ _	QPSECQ	User PATRICK PATRICK		User Data PRTQAUT QPADEV0005	SAV	2		Copy 1 1
	meters for	options 1, 2	, 3 or commar	nd			В	ottom

f) Exit the terminal emulation program.