

Details: Follow the steps shown on the following pages to send print jobs with user number authentication to the Sharp MFP from an AS/400.

The IBM AS/400 can print to the Sharp MFP with User Number Authentication using these instructions.

• 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.

User Number Authentication Sent with an AS400 Print Job

To allow printing from the *IBM AS400* when user number authentication is enabled on the *Sharp* MFP, follow the steps below. This requires a user account as well as an authority group be created on the MFP for use for printing from the *AS400*. This method will allow the *AS400* to authenticate to the MFP for printing only and will delete unauthenticated print jobs from all *Windows* users.

After setting up an account for the *AS400* to use to authenticate to the MFP, an experienced *AS400* administrator must modify a **Work Station Customizing Object** (**WSCST**) to add authentication credentials to the print data stream.

Setting Up the Sharp MFP for Authentication

1. Browse to the web page of the *Sharp* MFP. If authentication has already been enabled, login as the administrator (login name "admin", password "admin" all lower case if the default password has not been changed.) Note that the login name is always "admin" even if the password has been changed.

SHARP			
MX-4501N	Login		
	Login(P)		
	Login Name:	admin	(Up to 255 characters)
	Password:	•••••	(1-32 digits)
	Authenticate to:	Following the User Information 🛩	
	Log-in as the user who has the a	uthority to display the page that requires the adminis	strator authority.
			Back to the Top on This Page
	Login(P)		

If authentication has not yet been enabled, press the login button in the upper right hand corner of the web page. When the following screen appears, enter the administrator's password (default "**admin**" all lower case).

SHARP MX-4501N	Login Login(P) Cancel(C)			
	Authority: Login Name: Password:	admin Administrator <mark>☞</mark>	(5-32 digits)	
	I			Back to the Top on This Page 🛦
	Login(P) Cancel(C)			

2. A new authority group must be created for use with the new account for the AS400 to limit it to black and white printing only. This authority group will be applied to the properties of the account for the AS400 when it is created in a later step. After logging in, click on the User Control" menu item and then click on the "Authority Group List" When the following screen appears, click on the "Add" button to create a new authority group.

SHARP			Login(P)
MX-4501N	Authority Group List		Help(I)
Top Page			
▶ Status	Default Group List: Group Name:	Admin	
Address Book		User	
Document Operations		Guest	
Job Programs	Group List:		
Viser Control	No. Group Name		
🗉 User List	Not Set		
Default Settings	Select All(S) Clear Che	ecked(Z)	
Page Limit Group List			
Authority Group List Favorite Oper on Group List	(V)bbA		
User Count	Return to the Defaults:		
System Settings	Return to the Administrat	or Authority(Q)	
Application Settings	Return to the User Authorit	y(C)	
Operation Manual Download	Return to the Guest Author	ity(D)	
			Back to the Top on This Page
	Update(R)		

3. When the screen on the next page appears, type in the "Group Name" (as an example "Print_OK") and select the "Guest" authority group from the drop down box to use as a template for the new group's properties. As this group is only for the AS400 to use for printing, set all functions except for "Printing" and "Common Functions" to "Prohibited". To allow the AS400 to print in black only, ensure that "Color Mode Approval Setting" for "Black & White" is set to "Allowed" and "Full Color" to "Prohibited" under the "Printer" function.

SHARP			User Name: Adm	ninistrator Logout(L)
	Authority Group Registration			Help(I)
MX-4501N	Submit(I) Cancel(C)			
n Top Page	Group Name:	Print OK	(Up to 32 characters)	
▶ Status	Select the Group Name to be the Registration Model:	Guest 💌		
Address Book				Switch to Tab Made
Document Operations				Switch to Tab Mode
Job Programs	Сору			
User Control User List Default Settings Page Limit Group List Authority Group List	Color Mode Approval Setting:	Black & White: Full Color: 2 Color:	Prohibited 💌 Prohibited 💌 Prohibited 💌	
 Favorite Operation Group List User Count 	Special Modes Usage:	Single Color: Prohibited	Prohibited 💌	
System Settings	Printer			
Network Settings	-			
Application Settings	Color Mode Approval Setting:	Black & White:	Allowed	
E-mail Alert and Status		Full Color:	Prohibited -	
Storage Backup	FTP Pull Print:	Prohibited 💌		
Device Cloning	USB Memory Direct Print:	Prohibited 💌		
▶ Job Log	Image Send			
Security Settings				
Custom Links	Approval Settings for Each Mode:			
Operation Manual Downlo	E-mail: ad	Prohibited 🔽		
	FTP:	Prohibited 🔽		
	Desktop:	Prohibited 🔽		
	Network Folder:	Prohibited 💌		
	USB Memory:	Prohibited 💌		
	PC Scan:	Prohibited 💌		
	Internet Fax Send:	Prohibited 💌		
	PC-I-Fax Send:	Prohibited 💌		
	Color Scan:	Prohibited 💌		
	Special Modes Usage:	Prohibited 💌		

4. Click on the "**Submit**" button after all of the desired functions have been configured for this authority group.

SHARP			User Name: Administrator Logout(L)
MX-4501N	Authority Group Registration		Help()
	Submit(U) Cancel(C)		
■ Top Page	Group Name:	Print_OK	(Up to 32 characters)
▶ Status	Select the Group Name to be the Registration	Guest 💌	
Address Book			
Document Operations			Switch to Tab Mode
▶ Job Programs	Copy		

5. Click on the "User Control" menu item to expand it and then click on the "Default Settings" item. Make sure that the "User Authentication" drop down selection is set to "Enable". Click on the "Authenticate a User by User Number Only" radio button and ensure that the check box for "Disabling of Printing by Invalid User" is checked on. Click on the "Submit" button when all information has been entered in correctly.

SHARP		User Name: Administrator Logout(L)
MX-4501N	Default Settings	Help()
	Submit(U) Update(R)	
E Top Page	User Authentication:	Enable M
▶ Status	Authentication Method Setting:	O Authenticate a User by Login Name and Password
Address Book		O Authenticate a User by Login Name, Password and E-mail Address
 Desument Operations 		Authenticate a User by User Number Only
Document Operations		
Job Programs	Device Account Mode Setting:	Device Account Mode
- User Control	Login User:	Not Set
≡ User List		User Selection(C)
E Default Settings		
E Page Limit Group List	Actions when the Limit of Pages for Output	O Job is Completed even when the Limit of Pages is Reached
Authority Group List	JODS:	Iob is Stopped when the Limit of Pages is Reached
Favorite Operation Group List	The Number of User Name Displayed Setting on	8 🗸
User Count	Operational Panel:	
System Settings	A Warning when Login Fails	
Network Settings	Default Network Authentication Server Setting:	Not Set 🗸
Application Settings		
E-mail Alert and Status	User Information Print	User List
E Storage Backup		Print(D)
E Device Cloning	Release the Lock on Machine Operation Panel:	Execute(J)
Job Log		Back to the Tee on This Peece
Security Settings	Submit(U) Update(R)	Back to the Top on This Page and

6. If enabling authentication for the first time, you must log back into the web page with the login name of "**admin**" with the current password (default "**admin**" all lower case) for the administrator account.

SHARP			
MX-4501N	Login		
	Login(P)		
	Login Name:	admin	(Up to 255 characters)
	Password:	••••	(1-32 digits)
	Authenticate to:	Following the User Information V	
	Log-in as the user who has the a	authority to display the page that requires the admin	istrator authority.
			Back to the Top on This Page a
	Login(P)		

7. Next, click on the "*User Control*" menu to expand it and then click on the "*User List*" menu item. Click on the "Add" button to create an account for the *AS400* to use.

SHARP		User Name: Administrator	Logout(L)
MX-4501N	User List		Help(
	Update(R)		
n Top Page	Default User List		
Status	User Name	No.	
Address Back	Administrator	1	
Deserved Operations	Other User	3	
Document Operations		85 X	
Job Programs			
User Control	Index:		
n User List	Display Itams		
e Page Limit Group List			
n Authority Group List	User Name 🔺 🔻	No. A W	
Favorite Operation Group	Frank	7	
User Count	T Lance	4	
System Settings	T bob	6	
Network Settings	🗔 ken	8	
Application Settings	Ti mark	2	
E-mail Alert and Status	Ci melaku	1	
n Storage Backup	Total User: 6		
n Device Cloping	Previous(M) 1/1 Next(N)		
b Jab Las	Select All(S) Clear Checked(Z)		
r ann coù	Delete(D) Add(Y)		
Security Settings	Delete All Users(X)		
E Custom Links			-
Deeration Manual Download		Back to the Top on	This Pag

8. Type in a short name (in this example, "AS400") in the "User Name" field and enter in a unique account code in the "User Number" field for this user. In this case, the user number is "123456". NOTE: Be sure to record the account code as it will not be displayed on the web page. For the "Authority Group" select the new group authority that you just created from the drop down list ("Print_OK" in this example). All other fields are optional. Click on the "Submit" button to create the new user.

SHARP		User Name: Administrator Logout(L)
MX-4501N	User Registration	[Help()]
	Submit(U) Cancel(C)	
≡ Top Page	User Name (Required):	AS 400 (Up to 32 characters)
▶ Status	Initial (Optional):	(Up to 10 characters)
Address Book	Index (Required):	User 1 🔽
Document Operations	User Number (Required)	5-8 digits)
Job Programs	E-mail Address:	(Up to 64 characters)
▼ User Control		Global Address Search (R)
E User List E Default Settings E Page Limit Group List E Authority Group List	Pages Limit Group: Authority Group:	Unlimited Print_OK
E Favorite Operation Group List		Pollowing the system Settings
User Count	My Folder	
System Settings	My Folder:	Main Folder
Network Settings	Change My Folder	
Application Settings	 Select from List 	Browse (D)
E-mail Alert and Status	O Create Folder.	
E Storage Backup	 Folder Name (Required): 	(Up to 28 characters)
= Device Cloning	 Initial (Optional): 	(Up to 10 characters)
▶ Job Log	 Password: 	(5-8 digits)
Security Settings		Back to the Top on This Page
	Submit(U) Cancel(C)	

9. Next, click on the "System Settings" menu item to expand it and then click on "Printer Conditions Settings". Select "B/W" from the "Color Mode" drop down box. This will ensure that only black and white prints can be made by the AS400 account. Note that this will not have an effect on Windows users as the color mode is determined by the MFP print driver. Click on the "Submit" button to change the default color mode to black and white.

SHARP		User Name: Admini	strator Logout(L)
MX-4501N	Printer Condition Settings	3	Help(I)
	Update(R)		
≡ Top Page	Default Settings PCL Settings	PostScript Settings	
Status			
Address Book	Submit(U)		
Document Operations	Default Settings		
Job Programs	-		
User Control	Copies:	1 (1-999)	
 System Settings 	Orientation:	Portrait 🗸	
■ Total Count	Default Paper Size:	Letter(8 1/2x11)	
E Default Settings	Default Paper Type:	Plain 🗸	
E List Print (User) Paper Tray Settings	Line Thickness:	5 💌	
E Paper Type Registration	2-Sided Print:	1-Sided 🗸	
E F-Code Memory Box	Color Mode:	BWV 🗸	
E Fax Data Receive/Forward	N-Up Print:	Color BWV	
EUSB-Device_heck	Submit(II)		
Energy Save	Sublinic(0)		
Operation Settings Enguise Control		Back to th	e Top on This Page 🛛 🔺
E Copy Function Settings	Update(R)		

10. To test the account settings, open an application such as *Microsoft Word* on a *Windows* workstation, and create a file with small amount of text. From the application file menu, select "*Print*". When the application print dialog box opens, select the appropriate print driver for the target MFP in the drop down box and then click on the "**Properties**" button.

Print			? 🛛
Printer <u>N</u> ame: Status: Type: Where: Comment: Page range <u>O</u> <u>A</u> ll	SHARP MX-450 IN PCL5c Idle SHARP MX-450 IN PCL5c IP_192. 168. 100. 240	Copies Number of <u>c</u> opies:	Properties Find Printer Print to file Manual duplex
O Current p Pages: Enter page n separated by	umbers and/or page ranges y commas. For example, 1,3,5–12		✓ Colla <u>t</u> e
Print <u>w</u> hat: P <u>r</u> int:	Document All pages in range	Zoom Pages per s <u>h</u> eet: Scale to paper si <u>z</u> e:	1 page
Options]		OK Close

11. When the print driver dialog box opens, click on the "Job Handling" tab.

Main Paper Advanced Job Handling Watemarks Color User Settings: Untitled Saye Defaults Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image: Image:	🗇 SHARP MX-4501N PCL	5c Properties	? 🛛
User Settings: Utittled Saye Defaults Copies: Image Operation	Main Paper Advanced	Job Handling Watermarks Color	
Copies: Colate Colate Colate Document Style 1-Sided 2-Sided(Book) 2-Sided(Tablet) Pamphlet Style Iled Pamphlet N-Up Printing 1-Up Border Irder: None Irder: None Border Irder: None Border Irder: None Border Irder: Back and White Print	User Settings:	Untitled 🗸	Sa <u>v</u> e Defaults
N-Up Printing 1-Up Border Order: None Black and White Print		Copies: Collate Collate Occument Style Occument Style Occument Style Occument Style Occument Style Collatet Occument Style Collatet Occument Style Collatet Occument Style Collatet Occument Style Occument Style Collatet Occument Style Occument Style Occument Style Occument Style Collatet Occument Style Occument Style Occumen	Finishing Binding Edge: Left Staple: None Pungh No Offset Margin Shift: None
		N-Up Printing	Image Orjentation Portrait Landscape Rotate 180 degrees Black and White Print

12. Under the "User Authentication" area, click on the check box for "*User Number*" and fill in the account code created for the AS400 (in this example, it is set to "123456"). Note that the actual number is not displayed in the print driver.

SHARP MX-4501N PCL5c Properties	? 🛛
Main Paper Advanced Job Handling Watermarks Color	
User Settings: Untitled	Sa <u>v</u> e De <u>f</u> aults
 Retention Retention Settings Hold Only Hold After Print Sample Print Passwgrd Occurrent Filing Settings Quick File Main Folder Quoter Filing Settings Stored to Notify Job End Auto Job Control Review 	User Authentication Login Name Password User Number User Number User Name Job Name
0	K Cancel Help

13. Next, click on the "**Color**" tab. Under the "**Color Mode**" area, click on the radio button for "*Black and White*". Click on the "**OK**" button when done.

SHARP MX-4501N PCL5	ic Properties	? 🛛	
Main Paper Advanced J	ob Handling Watermarks Color		
User Settings: U	Intitled 💌	Sa <u>v</u> e De <u>f</u> aults	
	 The first states is the image of the image o	Color Mode Color C	
	All images will be printed in black and white.	Color Adjustment	
		☐ <u>T</u> ext To Black ☐ Vect <u>o</u> r To Black ☐ Toner <u>S</u> ave	
OK Cancel Help			

14. Click on the "**OK**" button in the application dialog box and ensure that the job prints out correctly.

Print			? 🛛
Printer <u>N</u> ame:	SHARP MX-450 1N PCL5c		Properties
Status: Type: Where: Comment:	Idle SHARP MX-450 1N PCL5c IP_192.168.100.240		Fin <u>d</u> Printer Print to file Manual duple <u>x</u>
Page range ● <u>A</u> ll ○ Curr <u>ent pages: ○ Pages: Enter page nu separated by </u>	age Selection umbers and/or page ranges commas. For example, 1,3,5–12	Copies Number of <u>c</u> opies:	1 Collate
Print <u>w</u> hat:	Document	Zoom Pages per s <u>h</u> eet:	1 page
Fund	All pages in range	Scale to paper size:	No Scaling 🗸
Options		C	OK Close

15. If the job printed correctly, print the same job again but select "*Print to File*" in the application's print dialog box before clicking on the "OK" button.

Print			? 🛛
Printer <u>N</u> ame: Status: Type: Where:	SHARP MX-4501N PCL5c Idle SHARP MX-4501N PCL5c IP_192.168.100.240		Properties Find Printer Print to file
Page range All Current p Pages: Enter page n separated by	bage Selection umbers and/or page ranges y commas. For example, 1,3,5–12	Copies Number of copies:	I Colla <u>t</u> e
Print <u>w</u> hat: P <u>r</u> int:	Document All pages in range	Zoom Pages per s <u>h</u> eet: Scale to paper si <u>z</u> e:	1 page 💌 No Scaling 💌
Options]	C	OK Close

16. Save the file in a known directory with a meaningful name for later use. In this example, the file was saved as "C:\as400_number.prn".

Print to file					? 🔀
Save <u>i</u> n:	🍛 Local Disk	(C:)	🔽 🕲 - 🖄 😋 🗙 👔	🍟 🎹 🔻 Tool	s *
MuBasant	SRECYCLE.	\$RECYCLE.BIN Control HDD Docur A Control HDD Tif file		MSOCache	
Documents	Access mar	Access manager verizon ActualtestsEngine AdventMet		OSA-Output Package Constraints	
Desktop	b b	disk	Firmware & system software	PAGEOVER	R
	⊂ ⊂ c22d10261	4437e98c9442e	ghost files	Drp PQI drive	
My Documents	Config.Msi	eker utilities	HP PCL5 Universal Print Driver	print drive	rs
Docs		and Settings	Installer	Program Files RECYCLER Sharp, OSA, SDK	
My Computer	Drivers		Mail	Sharpdesk	Desktop
My Network	File <u>n</u> ame:	as400_number]	, cia anna l	~	ОК
Places	Save as type:	Printer Files (*.prn) File name	✓	Cancel

Creating the Work Station Customizing Object Source Code

NOTE: With this procedure, authentication credentials have to be added to a **Work Station Customizing Object (WSCST)** for the printer definition on the **AS400**. For your convenience, a source code file for a **Sharp WSCST ("Allsharp.**") that can be modified is included with this document.

To prevent unauthorized print jobs from non *Windows* or *MAC* users, the *Sharp* MFP requires certain PJL commands provided by the *Windows* or *MAC* print drivers to print when authentication is enabled. The relevant commands to authenticate with user numbers to allow printing from the *AS400* are:

```
<ESC>%-12345X@PJL SET SPOOLTIME="XXXXXXXXXXXXXXXXX"<CR><LF>
@PJL SET ACCOUNTNUMBER="XXXXXXX"<CR><LF>
@PJL ENTER LANGUAGE=PCL<CR><LF>
```

<ESC>E

(The **<ESC>E** above is the **PCL** code to initiate the printer)

In the *IBM AS400* operating system, these statements must be converted from ASCII to HEX codes in the WSCST. When the print job is sent, the *AS400* Host Print Transform process will convert the HEX codes back to ASCII to provide the correct authentication statements to the MFP.

Every PJL command file must begin with the UEL (Universal Entry Language) statement "<ESC>%-12345X" (the "<ESC>" represents the ASCII code (27) for the Escape key, a non printable character). Each PJL command must begin with a "@PJL" statement and be terminated by the non printable ASCII codes for a carriage return / line feed pair (13 and 09). When PJL commands are used for printer initialization, the printer reset command must contain the UEL statement "<ESC>%-12345X" to terminate the command file. NOTE: PJL commands can vary by specific models so it is important that the appropriate commands for that model be used.

The following example shows the **PJL** commands required for user number authentication as well as determining the correct authentication information to use in the **WSCST**.

17. To determine the precise commands and values used for the *Sharp* MFP you will need to view the print file you created in **Step 16**. At a command prompt at the *Windows* workstation, change to the directory you saved your print file to. Open the file (in this example, "*as400_number.prn*") with the *DOS* "Edit" program by typing the following at a command prompt:

"Edit as400_number.prn" and press the enter key.

18. When the "Edit" screen opens, you can view all of the PJL and PCL commands sent by the *Windows* print driver for this particular *Sharp* MFP (an *MX-4501N* in this example). However, only the commands highlighted in yellow below are required for authentication.

Please note that in the *DOS Edit* program, the escape key (<ESC>) is represented by a left pointing arrow (\leftarrow) and the carriage return / line feed pair (<CR><LF>) is not displayed.



19. The commands required in this case in the **Workstation Customizing Object** for the *AS400* to authenticate to the *Sharp* MFP would be:

```
<ESC>%-12345X@PJL SET SPOOLTIME="Wed. 02 Dec 2009 10:26:14 -0800"<CR><LF>
@PJL SET ACCOUNTNUMBER="123456"<CR><LF>
@PJL SET LANGUAGE=PCL<CR><LF>
<ESC>E
```

While not shown in the above screen shot, the print file is terminated by the following command:

<ESC>%-12345X

20. Before these PJL commands can be used in a Work Station Customizing Object for the AS400, they must be translated from ASCII encoding to HEX codes. A conversion program (PJL2HEX.XLS) is included with this document but there are numerous ASCII to HEX conversion utilities available on the World Wide Web. To demonstrate the conversions, the examples used in this document are shown below. The ASCII code is shown first and then the corresponding HEX code is shown in red directly below each line.

```
<ESC>%-12345X@PJL SET SPOOLTIME="Wed. 02 Dec 2009 10:26:14 -0800"<CR><LF>
1B252D31323334355840504A4C205345542053504F4F4C54494D453D225765642E20
30322044656320323030392031303A32363A3134202D30383030220D0A
@PJL SET ACCOUNTNUMBER="123456"<CR><LF>
40504A4C20534554204143434F554E544E554D4245523D94313233343536940D0A
@PJL SET LANGUAGE=PCL
40504A4C20454E544552204C414E47554147453D50434C0D0A
<ESC>E
1B45
<ESC>%-12345X
1B252D313233343558
```

21. Once the PJL and PCL statements for authentication have been translated into HEX codes, they must be inserted into a Work Station Customizing Object source code file in specific areas. The WSCST file contains elements referred to as TAGS followed by data in HEX format to send commands to the printer. PJL commands for authentication can only be placed in the data field for the INITPRT TAG. The statement to terminate the command file ("<ESC>%-12345X") must be placed in the data field for the RESETPRT TAG. The data field for INITPRT can contain a maximum of 255 characters so only a few PJL commands can be included. Further, when using the AS400 Source Editor Utility, a maximum line length of only 80 characters (including TAGS, spaces, quote marks, etc) can be used. If the line length exceeds 80 characters or the data field exceeds 255 HEX characters, the WSCST source code will not compile correctly.

As you can see, the first line of **HEX** code for the **PJL** commands for authentication exceeds 80 characters. This means the line of **HEX** code must be broken into smaller segments following the rules of the *IBM AS400* Source Editor Utility:

- A. Total line length must not exceed 80 characters.
- B. The total HEX data for the INITPRT TAG cannot exceed 255 characters.
- C. HEX data statements must be enclosed by single quote marks (').
- D. Each data line must be terminated with an "X".
- E. The final line of the **HEX** data field must be terminated by a period (.) following the "X" character.

 The following screen shows the source code for the "Allsharp" Work Station Customizing Object in the AS400 Source Editor Utility before modification for authenticating by user number. The INITPRT and RESETPRT data is initially set to '1B45' (<ESC>E).

```
Columns . . . :
                            1 71
                                                     Edit
                                                                                                  QGPL/QTXTSRC
  SEU==>
                                                                                                         ALLSHARP
 FMT **
             ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
               :NOPRTBDR
0037.00
0038.00
                   OPTION=BOTTOM
                   ORIENT=LANDSCAPE
0039.00
0040.00 DATA =
0041.00 :INITPRT
0042.00 DATA -
                  DATA = 240.
                  DATA = '1B45'X.
0043.00 :RESETPRT
0044.00
                  DATA = '1B45'X.
0045.00 :BELL
0046.00 DATA
                  DATA = '07'X.

      DATA = '(

      0047.00
      :SPACE

      0048.00
      DATA = '2

      0049.00
      :CARRTN

      0050.00
      DATA = '0

      0051.00
      :FORMFEED

      0052.00
      DATA = '0

                  DATA ='20'X.
                   DATA ='OD'X.
0052.00
                   DATA = '0C'X.
0053.00
                LINEFEED
 F3=Exit F4=Prompt
                                 F5=Refresh
                                                     F9=Retrieve F10=Cursor
                                                                                             F11=Togqle
 F16=Repeat find
                                  F17=Repeat change
                                                                          F24=More keys
```

23. This code would have to be modified as shown below to send the authentication information shown in Step 20. Note that the modified data follows the rules for the *IBM Source Edit Utility* as shown in Step 21.

```
QGPL/QTXTSRC
                  1 71
                                  Edit
Columns . . . :
SEU==>
                                                                      NUMBER
        ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7
FMT **
0036.00
            DATA =
                     288.
0037.00
          :NOPRTBDR
0038.00
            OPTION=BOTTOM
            ORIENT=LANDSCAPE
0039.00
           DATA =
0040.00
                     240.
0041.00 :INITPRT
           DATA ='1B252D31323334355840504A4C20534554'X
0042.00
0043.00
             '2053504F4F4C54494D453D225765642E20'X
0044.00
             '30322044656320323030392031303A3236'X
0045.00
             '3A3134202D30383030220D0A'X
0046.00
             '40504A4C20534554204143434F554E544E'X
0047.00
             '554D4245523D94313233343536940D0A'X
0048.00
             '40504A4C20454E544552204C414E475541'X
0049.00
             '47453D50434C0D0A'X
          '1B45'X.
0050.00
0051.00
           :RESETPRT
0052.00
            DATA ='1B252D313233343558'X.
                                  F9=Retrieve F10=Cursor
F3=Exit F4=Prompt
                     F5=Refresh
                                                            F11=Toggle
F16=Repeat find
                     F17=Repeat change
                                                F24=More keys
```

- 24. After the "Allsharp" source code file is modified, save it with different file name (such as "Number") before compiling it into a WSCST. For instructions on transferring source code files such as "Allsharp" from a PC to the IBM AS400 and compiling the source code into a WSCST, see the attached document "Transferring WSCST Source Code.PDF".
- 25. For complete instructions on setting up a *Sharp* MFP as an *AS400* print device or remote output queue, see the attached files "*Create LAN attached printer VER 1.1.PDF*" and "*Create remote outque VER 1.1.PDF*".