

Guidance for

AS/400 Print Solution

C-studio 520/600/720/850 C-STUDIO281c/351c/451c C-STUDIO352/452 C-STUDIO202L/232/282 C-STUDIO2500c/3500c/3510c C-STUDIO165/205 C-STUDIO167/207/237 C-STUDIO 523/603/723/853 C-STUDIO353/453 C-STUDIO2031 /233/283 C-STUDIO2020c/2330c/2820c/ 2830c/3520c/3530c/4520c C-STUDIO5520c/6520c/6530c C-studio283c/353c/453c C-STUDIO205L/255/305/355/455 C-STUDIO 555/655/755/855 C-STUDIO182/212/242

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About this guide

This guide is for network administrators who are familiar with the IBM AS/400 system. It assumes you are familiar with the software applications used to print documents.

This guide is not designed for digital-copier service technicians or operators. For information on using and maintaining the equipment, refer to the following documents or contact your dealer for support.

- e-STUDIO520/600/720/850, e-STUDIO281C/351C/451C, e-STUDIO352/452, e-STUDIO202L/232/282, e-STUDIO2500C/3500C/3510C, e-STUDIO523/603/723/ 853, e-STUDIO353/453, e-STUDIO203L/233/283 and e-STUDIO283C/353C/453C:
 Operator's Manual for Basic Functions
- e-STUDIO2020C/2330C/2820C/2830C/3520C/3530C/4520C, e-STUDIO5520C/ 6520C/6530C, e-STUDIO205L/255/305/355/455 and e-STUDIO555/655/755/855: Copying Guide
- e-STUDIO165/205, e-STUDIO167/207/237 and e-STUDIO182/212/242: *Operator's Manual for Copying Functions*

Conventions

- The term "equipment" in this manual refers to the following models:
 - e-STUDIO520/600/720/850
 - e-STUDIO281C/351C/451C
 - e-STUDIO352/452
 - e-STUDIO202L/232/282
 - e-STUDIO2500C/3500C/3510C
 - e-STUDIO165/205
 - e-STUDIO167/207/237
 - e-STUDIO523/603/723/853
 - e-STUDIO353/453
 - e-STUDIO203L/233/283
 - e-STUDIO2020C/2330C/2820C/2830C/3520C/3530C/4520C
 - e-STUDIO5520C/6520C/6530C
 - e-STUDIO283C/353C/453C
 - e-STUDIO205L/255/305/355/455
 - e-STUDIO555/655/755/855
 - e-STUDIO182/212/242

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1. AXIS Network Print Server

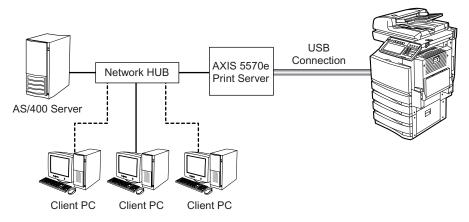
AS/400 Print Solution - 1. AXIS Network Print Server

Components

The components of the AS/400[®] Printing Solution are:

- AS/400 server
- Your equipment
- USB cable to connect the AXIS 5570e Print Server and your equipment
- AXIS 5570e Print Server
- Client PC workstation
- Custom Config file (Config_landscape) TOSHIBA TEC Products

The configuration diagram illustrates the relationship among these components.



AS/400 Printing Solution components

Print output generated by the AS/400 server passes through the AXIS 5570e Print Server that acts as a converter from IPDS into PCL print commands, which are then sent to your equipment. For more information about AXIS 5570e Print Server, go to the AXIS COMMUNICATIONS of <u>www.axis.com</u>.

A client PC can also send commands directly to your equipment.

Finishing options and logical printers

TOSHIBA offers several finishing options in addition to standard print commands coming from the AS/400. For example, stapling and hole punching are finishing options.

The finishing options are grouped in several preconfigured sets, which you associate with up to eight logical printers.

NOTE: • Any finisher options are not supported in e-STUDIO165/205 and e-STUDIO167/ 207/237.

Installation procedure

Install the AS/400 printing solution in two steps:

- 1. Set up the hardware
- 2. Set up the AS/400 printer

Step 1: Set up the hardware

- NOTE: The controller can be directly connected to the AS/400 network at the same time. Thus, PCL-based or raw print jobs can be sent to it via the network, bypassing the AXIS 5570e Print Server device.
 - 1. Following the product installation instructions that came with the AXIS 5570e Print Server, setup this device.
 - **2.** Connect the AXIS 5570e Print Server and your equipment using the USB cable.
 - **3.** Press the TEST button on the AXIS 5570e Print Server to print a test page to your equipment.
 - 4. Connect the AXIS 5570e Print Server to the network hub.

Step 2: Set up the AS/400 printer

On the AS/400, use the CRTDEVPRT command to configure the print settings according to the following table:

AS/400 Print settings

Setting Name	Value
Device description	Unique description, such as TOSHIBA
Device class	*LAN
Device type	*IPDS
Device model	0
LAN attachment	*IP
Port number	e.g. 5001
Font identifier	11
Remote location	IP address of AXIS 5570e

All other settings can be left unchanged.

NOTE: • If you experience any problems, press F1 for help.

Create Device [) (D-:-+)	
Create Device I	Jesc (Printer)	(CRIDEVPRI)
Type choices, press Enter.		
Device description Device class Device type Device model LAN attachment Switched line list	TOSHIBA *LAN *IPDS 0 *IP	Name *LCL, *RMT, *VRT, *SNPT, *LAN 3287, 3812, 4019, 4201 0, 1, 2, 3, 4, 10, 13, 301 *LEXLINK, *IP, *USRDFN Name
+ for more values LAN remote adapter address Adapter type Adapter connection type Emulated twinaxial device Advanced function printing AFP attachment Switch setting	<u>*INTERNAL</u> <u>*PARALLEL</u> <u>*YES</u> <u>*WSC</u> 5001	000000000001-FFFFFFFFFFF *INTERNAL, *EXTERNAL *PARALLEL, *SERIAL 3812, 5219, 5224, 5256 *NO, *YES *WSC, *APPC 0-65535 0, 1, 2, 3, 4, 5, 6 00-FE
F3=Exit F4=Prompt F5=Refresh F24=More keys Parameter DEVD required.	F12=Cancel	More F13=How to use this display +
MA a	A	18/041

Sample AS/400 Printer Setup Screen

Configuring the AXIS 5570e

Follow the instructions below to configure your AXIS 5570e for AS/400 IPDS over PPR/ PPD printing using a standard Web browser:

1. Start a Web browser and enter the IP address or the host name of the AXIS 5570e in the location field. Press Enter. The internal Web pages of the AXIS 5570e will appear.

- NOTE: To protect the admin pages and the Configuration Wizard from unauthorized use, enter a password (by default set to pass) in the Root Password field under Admin General Settings.
 - Use the same port number when creating the print device (page 15).

Note for IPDS printing:

In the Configuration Wizard, you can choose between PCL or PostScript printing. Choose PCL for Printer Driver. PostScript is not available.

- **2.** Click the Configuration Wizard for IBM sessions button.
- **3.** Delete the pre-configured PPR/PPD session. Pre-configured session is not available for TOSHIBA e-STUDIO series.
- **4.** Click the Add Session button. This will start the Configuration Wizard which is a step-by-step guide through the required configuration settings.

Verifying the communication link (AS/400)

Follow the instructions below to verify the communication to the AXIS 5570e:

- 1. Type WRKCFGSTS *DEV <Device description Name> on the AS/400 command line and press Enter. The previously created printer device will be displayed. The status of the printer device should be VARIED OFF.
- 2. Vary on the printer device by typing 1 in the Opt field. Press Enter.
- **3.** Press F5 to refresh the display. The printer device should now be VARIED ON.
- Start the printer writer by typing STRPRTWTR <Device description Name> on the AS/400 command line. Press Enter.
- 5. Press F5 to refresh the display. The printer device should now be ACTIVE/WRITER.
- 6. Direct a printout to this printer device. A successful printout verifies the communication link between the AS/400 and the AXIS 5570e.
- NOTE: If the setup fails, refer to the troubleshooting section in the AXIS 5570e User's Manual, on www.axis.com

Available AXIS firmware version

Use the production release version or service release version given in the following table when using TOSHIBA MFP.

All official firmware releases for the AXIS 5570e are available on AXIS website.

TOSHIBA MFP	Production release version	Service release version
e-STUDIO520/600/720/850	7.08 or later	7.06.04 or later
e-STUDIO523/603/723/853		
e-STUDIO281C/351C/451C		
e-STUDIO352/452	7.08 or later	7.08.2 or later
e-STUDIO353/453		
e-STUDIO202L/232/282		
e-STUDIO203L/233/283		
e-STUDIO2500C/3500C/ 3510C	7.10 or later	7.08.2 or later
e-STUDIO165/205		
e-STUDIO167/207/237		
e-STUDIO2020C/2330C/ 2820C/2830C/3520C/3530C/ 4520C		
e-STUDIO5520C/6520C/ 6530C		
e-STUDIO283C/353C/453C		

http://www.axis.com/techsup/prtsrv/axis_5570e/firmware.php Use AXIS 5570e IPDS printing when using TOSHIBA MFP.

Update procedure

Update procedure of the AXIS 5570e firmware using FTP:

- **1.** Open a Windows command prompt.
- 2. Connect to the print server using ftp: Type ftp <ip address>
- **3.** Enter the user and password: (Default user: root Default password pass) and press Enter.
- 4. Change to binary transfer mode: type bin and press Enter.
- 5. Type hash and press Enter.
- 6. Type put <filename> FLASH. A stream of hash marks will appear.
- 7. The message "Transfer complete. Flash programming finished OK. " will appear.

8. The print server will restart in five seconds running the new software.

Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.
C:¥>ftp 172.16.101.199 Connected to 172.16.101.199. 220 AXIS 5570e FTP Network Print Server V7.06.04.RC1 Dec 22 2005 ready.
User (1723.06.101.1931.0000): root 331 User name ok, need password Password:
230 User logged in ftp> bin
200 TYPE set to I. ftp> hash Hash mark printing On ftp: (2048 bytes/hash mark) .
ftp> put axis5570e.bin FLASH 200 PORT command successful. 150 Opening data connection for FLASH (172,18,101,143,4,63), (mode binary).
221-Transfer complete, flash programming finished OK. Starting new software
221 Reset, closing connection. ftp: 1762453 bytes sent in 10.23Seconds 172.22Kbytes/sec. ftp>_

Update procedure of the config file:

1. Get the config file by FTP. Open a Windows command prompt and enter the following:

ftp <ip address> default user name root default password pass get config bye

- 2. Update the custom driver parameters from the config file; the parameters needed for the custom driver begin with DC General Menu and end with DC PCL Copies.
- **3.** Save the file as, e.g. my_template.
- 4. Upload 'my_template' to the print server by FTP.

ftp <IP address> default user name root default password pass put my_template CONFIG bye

Copier model

When printing portrait data, select an appropriate copier model, e.g. Toshiba eSTUDIO520/600/720/850 or Toshiba eSTUDIO281C/351C/451C.

When printing landscape data, select Custom copier driver for Copier model.

P.31 "Custom copier driver"

dit Session - PPR/PPD Cor	figuration		
Port Number:	5001		
IPDS System Language:	37 - US English	~	
IPDS Printer mulation:	4332		
IPDS Printer Driver:	PCL V		
Copier:	Toshiba eSTUDIO520/600/720/850	~	
Duplex: Staple:	Ricoh Aficio 350 Ricoh Aficio 450	^	
Hole Punch:	Ricoh Aficio 550 Ricoh Aficio 650 Ricoh Aficio AP4500		
Paper Source:	Ricoh Aficio AP3200 Savin 9935DP		
Copies:	Savin 9945DP		
	Savin 9955DP Sharp AR286 FN1 Sharp AR286 FN1 Sharp AR366 FN1 Sharp AR405 FN1 Sharp AR505 FN1 Sharp AR286 FN2 Sharp AR386 FN2 Sharp AR305 FN2		
	Sharp AR505 FN2 Toshiba DP 4580 Toshiba DP 5570 Toshiba DP 6570 Toshiba DP 8070		el
	Toshiba eSTUDIO35 Toshiba eSTUDIO35 Toshiba eSTUDIO45 Toshiba eSTUDIO55 Toshiba eSTUDIO65 Toshiba eSTUDIO80		

NOTE:

- In using e-STUDIO167/207/237, choose e-STUDIO165/205.
- In using e-STUDIO523/603/723/853, choose e-STUDIO520/600/720/850.
- In using e-STUDIO353/453, choose e-STUDIO352/452.
- In using e-STUDIO2020C/2330C/2820C/2830C/3520C/3530C/4520C, choose e-TUDIO2500C/3500C/3510C.
- In using e-STUDIO5520C/6520C/6530C, choose e-STUDIO2500C/3500C/3510C.
 - In using e-STUDIO283C/353/453C, choose e-STUDIO281C/351C/451C.

Only PCL available

In the Configuration Wizard for IBM sessions, select PCL for Printer Driver. PostScript is not available.

	licrosoft Internet Exp	
Add Session - Print	er Driver	
Depending on the o driver from the list.	connected printer, select t	the appropriate printer
The IPDS data will l	pe converted to either Po	stScript or PCL.
Printer Driver:	PCL V	
Physical Port:	PostScript PCL	
	Cancel	<pre></pre>
	Cancer	La Dack

Edit Session:

Only PCL is available for IPDS Printer Driver under Edit Session. PostScript is not available.

Port Number:	5001
IPDS System Language:	37 - US English 💌
IPDS Printer Emulation:	4332
IPDS Printer Driver:	PCL Y
Copier:	PostScript DI0520/600/720/850
Duplex:	
Staple:	off 🖌
Hole Punch:	Off 🖌
Fold:	Off 🔽
Paper Source:	Default 💌
Copies:	1

Available finisher options

The following options are available for the settings of Logical Printers or Edit Session.

Duplex:

Edit Session:

Long Edge Binding and Short Edge Binding are available for Duplex under Edit Session.

Port Number:	5001
IPDS System Language:	37 - US English 💌
IPDS Printer Emulation:	4332
IPDS Printer Driver:	PCL V
Copier:	Toshiba eSTUDIO520/600/720/850 🗙
Duplex:	Off 🖌
Staple:	Off Simplex
Hole Punch:	Long Edge Binding
Fold:	Short Edge Binding
Paper Source:	Default 🍸
Copies:	1

Logical Printers:

LONG_EDGE_BINDING and SHORT_EDGE_BINDING are available for Copier Duplex under Logical Printers.

Overview PR1	PRa PR3 PR4 PR5
Physical Port:	USB1 💌
Name Printer PR1:	
Secondary Printer:	PR1 V
Wait On Busy:	⊙Yes ○No
Read Back Port:	AUTO 💌
String Before Print Job:	
String Substitutions:	
Character Set Conversion:	NONE
Printer Language Translation	NONE
String After Print Job:	
Hex Dump Mode Enabled:	⊖Yes ⊙No
PostScript Page Size:	A4 💙
PostScript Page Orientation:	PORTR ¥
PostScript Page Format:	66 0 100 60 30
PostScript Font:	
Copier Model:	Toshiba_eSTUDIO520/600/720/850 💌
Copier Duplex:	OFF 🗸
Copier Staple:	OFF SIMPLEX
Copier Hole Punch:	LONG_EDGE_BINDING
Copier Fold:	SHORT_EDGE_BINDING
Copier Paper Source:	DEFAULT 💌
Copier Copies:	1

Staple:

Edit Session:

Top Left Slant, Top Double, Left Double and Top Right are available for Staple under Edit Session.

Center is not available.

Selecting Center staples at the center of the paper, not in a book format.

Port Number:	5001
IPDS System Language:	37 - US English 💌
IPDS Printer Emulation:	4332
IPDS Printer Driver:	PCL Y
Copier:	Toshiba eSTUDI0520/600/720/850 💌
Duplex:	Off 💌
Staple:	Off 🖌
Hole Punch: Fold:	Off Top Left Slant Top Double
Paper Source: Copies:	Left Double Center Top Right

Logical Printers:

TOP_LEFT_SLANT, TOP_RIGHT, TOP_DOUBLE and LEFT_DOUBLE are available for Copier Staple under Logical Printers.

TOP_LEFT_HORIZONTAL, TOP_LEFT_VERTICAL, BOTTOM_LEFT, BOTTOM_RIGHT and CENTER are not available.

Selecting CENTER staples at the center of the paper, not in a book format.

۲	Logical Printers - Microso	oft Internet Explorer 🛛 🗐 🔀
	the set of the set of the	<u>^</u>
	Overview PR1 I	PRa PR3 PR4 PR5
ľ		
	Physical Port:	USB1 🕶
	Name Printer PR1:	
	Secondary Printer:	PR1 V
	Wait On Busy:	⊙Yes ○No
	Read Back Port:	AUTO 🕶
	String Before Print Job:	
	String Substitutions:	
	Character Set Conversion:	NONE 🛩
	Printer Language Translation:	NONE
	String After Print Job:	=
	Hex Dump Mode Enabled:	O Yes 💿 No
	PostScript Page Size:	A4 💙
	PostScript Page Orientation:	PORTR ¥
	PostScript Page Format:	66 0 100 60 30
	PostScript Font:	
	Copier Model:	Toshiba_eSTUDIO520/600/720/850 💌
	Copier Duplex:	OFF 💌
	Copier Staple:	OFF 🔽
	Copier Hole Punch:	OFF TOP_LEFT_SLANT
	Copier Fold:	TOP_LEFT_HORIZONTAL
	Copier Paper Source:	TOP_LEFT_VERTICAL TOP_RIGHT
	Copier Copies:	BOTTOM_LEFT
		TOP_DOUBLE
		LEFT_DOUBLE CENTER
<	III	>

NOTE: • e-STUDIO165/205 and e-STUDIO167/207/237 are not supporting the Staple Option.

Hole Punch:

Edit Session:

Long Edge and Short Edge are available for Hole Punch under Edit Session.

IPDS System Language:	37 - US English 💌
IPDS Printer mulation:	4332 💌
IPDS Printer Driver:	PCL V
Copier:	Toshiba eSTUDIO520/600/720/850 💙
Duplex:	off 🗸
Staple:	Off 🖌
Hole Punch:	off 🖌
	Off
	Long Edge Short Edge
	1

Logical Printers:

LONG_EDGE and SHORT_EDGE are available for Copier Hole Punch under Logical Printers.

Logical Printers - Micros	oft Internet Explorer 📃 🔲
Overview PR1	PR2 PR3 PR4 PR5
Physical Port:	USB1
Name Printer PR1: Secondary Printer:	PR1 Y
Wait On Busy:	• Yes O No
Read Back Port: String Before Print Job:	AUTO 💌
String Substitutions:	
Character Set Conversion: Printer Language Translation:	
String After Print Job:	
Hex Dump Mode Enabled:	OYes ONO
PostScript Page Size: PostScript Page Orientation:	A4
PostScript Page Format:	66 0 100 60 30
PostScript Font:	
Copier Model:	Toshiba_eSTUDI0520/600/720/850 V
Copier Duplex: Copier Staple:	OFF V
Copier Hole Punch:	OFF V
Copier Fold:	OFF LONG_EDGE
Copier Paper Source: Copier Copies:	SHORT_EDGE
III	>

NOTE: • e-STUDIO165/205 and e-STUDIO167/207/237 are not supporting the Hole Punch Option.

Fold:

Fold option is not available.

Edit Session:

IPDS Printer 4222	IPDS Printer 4332 V imulation: IPDS Printer Driver: PCL V Copier: Custom copier driver V Duplex: Short Edge Binding V Staple: Left Double V Hole Punch: Off V Fold: Off V	IPDS Printer 4 mulation:	
ulation: 4332 IPD S Printer Driver: PCL Copier: Custom copier driver Duplex: Short Edge Binding Staple: Left Double Hole Punch: Off Fold: Off	imulation: 4332 IPDS Printer Driver: PCL Copier: Custom copier driver Duplex: Short Edge Binding V Staple: Left Double Hole Punch: Off Fold: Off Paper Source: Off	mulation:	ana (11)
Copier: Custom copier driver Duplex: Short Edge Binding V Staple: Left Double V Hole Punch: Off V Fold: Off V	Copier: Custom copier driver Duplex: Short Edge Binding Staple: Left Double Hole Punch: Off Paper Source: Off		332
Duplex: Short Edge Binding V Staple: Left Double V Hole Punch: Off Fold: Off	Duplex: Short Edge Binding V Staple: Left Double V Hole Punch: Off V Fold: Off V Paper Source: Off V	IPDS Printer Driver: P	CL 🗸
Staple: Left Double Hole Punch: Off Fold: Off	Staple: Left Double Hole Punch: Off Fold: Off Paper Source: Off	Copier: C	ustom copier driver 🛛 👻
Hole Punch: Off V Fold: Off V	Hole Punch: Off V Fold: Off V Paper Source: Off V		and the second se
Fold: Off	Fold: Off V Paper Source: Off V	Staple: L	eft Double 💙
	Paper Source:		
Paper Source:			
-	Copies: 1	Paper Source:	ff 🚽 💌
Copies: 1		Copies: 1	
Copies: 1		• • • • • • • • • • • • • • • • • • •	

Logical Printers:

HALF_FOLD and Z_FOLD are not available for Copier Fold under Logical Printers.

Overview PR1	PR2 PR3 PR4 PR5
hysical Port:	USB1 💌
ame Printer PR1:	
econdary Printer:	PR1 💙
/ait On Busy:	⊙Yes ○No
ead Back Port:	AUTO 💌
tring Before Print Job:	
tring Substitutions:	
haracter Set Conversion:	NONE
rinter Language Translatio	n: NONE
tring After Print Job:	
ex Dump Mode Enabled:	○Yes ⊙No
ostScript Page Size:	A4 💌
ostScript Page Orientation	PORTR V
ostScript Page Format:	66 0 100 60 30
ostScript Font:	
opier Model:	Toshiba_eSTUDIO520/600/720/850 🗸
opier Duplex:	OFF 🖌
opier Staple:	OFF 💌
opier Hole Punch:	OFF 💌
opier Fold:	OFF 💌
opier Paper Source:	
opier Copies:	Z_FOLD

Paper Source:

Default and 1-4 are available for Paper Source.

- Default: Auto select
- 1: Upper Cassette
- 2: Lower Cassette
- 3: 1st Pedestal or Large Capacity Feeder
- 4: 2nd Pedestal

Edit Session:

🐔 Edit Session – Microsoft Internet Explorer 📃 🗖 🔀		
Edit Session - PPR/PPD Cor	nfiguration	
Port Number:	5001	
IPDS System Language:	37 - US English 💌	
IPDS Printer Emulation:	4332	
IPDS Printer Driver:	PCL V	
Copier:	Toshiba eSTUDIO520/600/720/850 💌	
Duplex:	Off 🗸	
Staple:	off 💌	
Hole Punch:	Off 🖌	
Fold:	Off 💌	
Paper Source:	Default 🌱	
Copies:	Default	
	2 3	
	4	
	OK Cancel	
	~	

Logical Printers:

5 is not available for Copier Paper Sources under Logical Printers.

Logical Printers - Microso	oft Internet Explorer 📃 🗖
Overview PR1	PR2 PR3 PR4 PR5
Physical Port:	USB1 🗸
Name Printer PR1:	
Secondary Printer:	PR1 🛩
Wait On Busy:	⊙Yes ○No
Read Back Port:	AUTO 🔽
String Before Print Job:	
String Substitutions:	
Character Set Conversion:	NONE 🗸
Printer Language Translation:	NONE
String After Print Job:	
Hex Dump Mode Enabled:	OYes 💿 No
PostScript Page Size:	A4 💙
PostScript Page Orientation:	PORTR V
PostScript Page Format:	66 0 100 60 30
PostScript Font:	
Copier Model:	Toshiba_eSTUDIO520/600/720/850 🗸
Copier Duplex:	OFF 🗸
Copier Staple:	OFF 🖌
Copier Hole Punch:	OFF 💌
Copier Fold:	OFF 💌
Copier Paper Source:	DEFAULT
Copier Copies:	DEFAULT
	2
	4
	5

Copies:

The Copies option is for selecting the number of copies.

General settings

Select DISABLE for Printer Information and Bidirectional control if extra data, which is specified as "PAGECOUNT", is printed.

General LPT1	USB1	
Printer Information: Printer Comment: Bidirectional control: Printer Feedback Delay:	DISABLE V DISABLE V 3	0
Buffer Size: Override port status:	0 Ves 🛞 No	

IPDS emulator

IPDS bin under the IPDS Configuration tab is used for setting the paper size. Statement, Ledger, Folio, Hagaki, Letter, Legal, A4 and A3 are available. Executive and Custom are not available.

NOTE: • Statement and Hagaki are not supported in e-STUDIO165/205 and e-STUDIO167/ 207/237.

> PostScript Page Size, PostScript Page Orientation, PostScript Page Format and Post-Script Page Font are not available under Logical Printers.

N-up under the IPDS Configuration tab is not available.

IPDS Configuration:

BM IPDS Emulator	Settings - Micr 💻 🔲
	0
	· · · · · · · · · · · · · · · · · · ·
IPDS Configuration	IPDS PostScript Driver S-
True color support:	O Enabled 💿 Disabled
Duplex support:	Enabled O Disabled
Optimize duplex:	⊙ Enabled ○ Disabled
Report all fonts:	O Enabled 💿 Disabled
N-up:	1-up ¥
Overlay X Offset:	0
Overlay Y Offset:	0
Report X Offset:	0
Report Y Offset:	0
Default output bin:	Bin1 💙
Default input bin:	Bin1 💙
Input Path Linking:	Off 🔽
IPDS bin 1	
Paper size:	A4 💌
Physical paper width:	Statement Ledger
Physical paper length:	Folio
IPDS bin 2	Hagaki Executive
Paper size:	Letter
Physical paper width:	Legal A4
Physical paper length:	A3
IPDS bin 3	Custom
. .	

For PCL Bin number, the available value for TOSHIBA MFP is as follows:

- 1: Upper
- 2: Bypass
- 4: Lower
- 5: Pedestal Upper or Large Capacity Feeder
- 7: Auto
- 21: Pedestal Lower

IPDS Configurat	ion IPDS Posts	cript Driver Settings	IPDS PCL Driver Sett
Language version:			
Symbolset:	AUTOMATIC 💌		
OCR Enabled:	📀 Enabled 🔘 Disa	bled	
Optimize overlays:	🔘 Enabled 💿 Disa	bled	
PCL bin 1			
Bin number:	1		
Horizontal offset:	0		
Vertical offset:	0		
PCL bin 2			
Bin number:	4		
Horizontal offset:	0		
Vertical offset:	0		
PCL bin 3			
Bin number:	5		
Horizontal offset:	0		
Vertical offset:	0		
PCL bin 4			
Bin number:	20		
Horizontal offset:	0		
Vertical offset:	0		
PCL bin 5			

Custom copier driver

When you print landscape data with some finisher options enabled, you may need to use the Custom Copier Driver for correct output. Obtain the information about the Custom copier driver functionality from AXIS COMMUNICATIONS web site. When you use the Custom Copier Driver, select "config_landscape" for the PCL config setting.

NOTE: • When you use the Custom copier driver, the printing condition is the same when only PCL and available finisher options can be selected.

Select Custom copier driver for Copier under Edit Session

Port Number: 5001 IPDS System Language: 37 - US English IPDS Printer 4332 IPDS Printer Driver: PCL Duplex: Off]
imulation: 4332 IPDS Printer Driver: PCL Copier: Custom copier driver Duplex: Off	
Copier: Custom copier driver Duplex: Off	
Duplex: Off	
	•
Staple: Off	
Hole Punch: Off	
Fold: Off 💌	
Paper Source: Default 🗙	
Copies: 1	

Select Custom_copier_driver for Copier Model under Logical Printer.

🐔 Logical Printers - Microso	oft Internet Explorer 📃 🗖 🔀
Overview PR: 1	PR2 PR3 PR4 PR5 PR
Physical Port: Name Printer PR1: Secondary Printer: Wait On Busy: Read Back Port: String Before Print Job: String Substitutions: Character Set Conversion: Printer Language Translation: String After Print Job: Hex Dump Mode Enabled: PostScript Page Size:	
PostScript Page Orientation: PostScript Page Format: PostScript Font:	PORTR 💌
Copier Model: Copier Duplex:	Custom_copier_driver
Copier Staple: Copier Hole Punch: Copier Fold:	OFF V OFF V
Copier Paper Source:	DEFAULT V

Problems and recommended solutions

The following table provides suggestions for resolving printing problems.

Problem	Recommended solution
The finishing option needed for the current job did not occur.	 Check the Custom Config file currently loaded Check if the print queue on the AS/400 is configured to use the correct port for the logical printer with the desired finishing option
Document does not print	 Make sure both the controller and the AXIS 5570e Print Server are powered on and online Check the cable connection. Print a test page by pressing the TEST button on the AXIS 5570e Print Server Ensure both the controller and the AXIS 5570e Print Server are configured with the TCP/IP proto- col Make sure the print queue on the AS/400 is con- figured to use the current IP address of the AXIS 5570e Print Server. Remember, it is recom- mended that a static IP address is assigned to the AXIS 5570e Print Server device Restart the controller and/or the AXIS 5570e Print Server if necessary
AXIS 5570e Print Server can- not be discovered	 Check configuration according to AXIS 5570e Print Server guide Make sure the AXIS 5570e Print Server is config- ured with the TCP/IP protocol

Customer service

For help with AXIS 5570e Print Server questions, go to the AXIS COMMUNICATIONS section of <u>www.axis.com</u>.

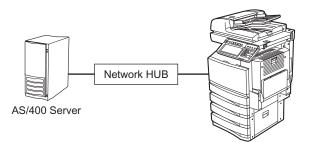
2. WorkStation Customization Object for TOSHIBA e-STUDIO

Components

The components of the AS/400® Printing Solution are:

- AS/400 Server OS version 5.2 or later (The latest PTF is recommended)
- Your equipment (See NOTE below.)
- WorkStation Customization Object for TOSHIBA e-STUDIO

The configuration diagram illustrates the relationship among these components.



AS/400 Printing Solution components

Print data generated with AS/400 can be printed out from a TOSHIBA MFP by relating them with OUTQ which was set up with the WorkStation Customization Object for TOSHIBA e-STUDIO.

- NOTE: The WorkStation Customization Object for TOSHIBA e-STUDIO does not support the following models:
 - e-STUDIO281C/351C/451C
 - e-STUDIO2500C/3500C/3510C

Finishing options and logical printers

TOSHIBA offers several finishing options in addition to standard print commands coming from the AS/400. For example, stapling is a finishing option.

Installation procedure

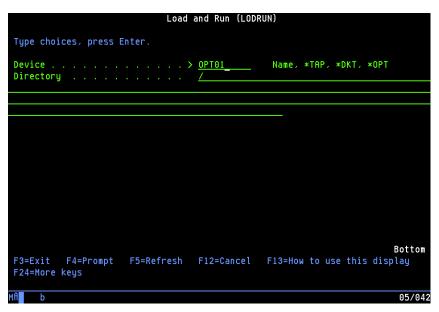
Before installing the WorkStation Customization Object for TOSHIBA e-STUDIO, configure the system environments as follows:

- Set up AS/400 Server under the environment that allows you to use printing functions.
- Set up a TOSHIBA MFP under an environment that allows you to use it in a network.
- Connect the AS/400 Server and the TOSHIBA MFP with a LAN cable.

Step 1: Installing WorkStation Customization Object for TOSHIBA e-STUDIO

This section describes how to install the WorkStation Customization Object for TOSHIBA e-STUDIO.

- **1.** Mount a product CD into a CD-ROM drive.
- **2.** Login as a user with QSECOFR authority.
- **3.** Execute a command [LODRUN] + [F4] and then specify the CD-ROM drive where you mounted the product CD.



- 4. The setting screen for OUTQ appears as the installation is executed. Specify the name of OUTQ (maximum 7 bytes) to be used, its library, the IP address of the printer and default tray type*. Then press the execution key.
 - * default tray type
 - e-STUDIO5520C/6520C/6530C
 Enter "I" (InnerTray) or "S" (SideTray). If you use both of them, enter one, install "WorkStation Customization Object for TOSHIBA e-STUDIO" and then register the other when setting it up. For details of the setting up, see the following page:
 P.37 "Step 2: Setting up WorkStation Customization Object for TOSHIBA e-STUDIO"
 - Other models Enter "I" (InnerTray).

SETUP OUTQ / TTEC / ORG (TECSETQ)						
Type choices, press Er	nter.					
Output queue Library INTERNET ADDRESS		<u>*CURLIB</u>	Name Name, *CURLIB			
DEFAULT TRAY TYPE		_	I:InnerTray (S:SideTray)			
F3=Exit F4=Prompt	EE-Dofroch	E12=Capaci	Botto F13=How to use this display	om		
F24=More keys	FD-Reffesh	FIZ-Cancel	FIS-HOW to use this display			
MA b			05/0	937		

5. The installation is completed.

- The installation is properly completed unless any error messages appear. You can go to the following page because in this case the next step "Setting up WorkStation Customization Object for TOSHIBA e-STUDIO" is also completed:
 P.38 "Step 3: Starting up auto assign (resident) program"
- An error message appears when the specified OUTQ name already exists or OUTQ was not generated because a parameter value is in error.
- If an error message appears or you stopped the command by pressing [F12] or [F3], go to the following page:
 P.37 "Step 2: Setting up WorkStation Customization Object for TOSHIBA e-STUDIO"

Step 2: Setting up WorkStation Customization Object for TOSHIBA e-STUDIO

This section describes how to set up the WorkStation Customization Object for TOSHIBA e-STUDIO.

- 1. Login as a user with QSECOFR authority.
- 2. Execute the command below to add a library "WTEC02" to the top of the library list. ADDLIBLE WTEC02
- 3. Execute a command [TECSETQ] + [F4]. Then specify the name of OUTQ (maximum 7 bytes) to be used, its library, the IP address of the printer and default tray type*. Then press the execution key.
 - * default tray type
 - e-STUDIO5520C/6520C/6530C
 Enter "I" (InnerTray) or "S" (SideTray). If you use both of them, enter one, set up "WorkStation Customization Object for TOSHIBA e-STUDIO" and then set it up again for registering the other.
 - Other models Enter "I" (InnerTray).

	SETUP OUTQ	/ TTEC / ORG	(TECSETQ)
Type choices, press I	Enter.		
Output queue Library INTERNET ADDRESS		- <u>*CURLIB</u>	Name Name, *CURLIB
DEFAULT TRAY TYPE .		_	I:InnerTray (S:SideTray)
F3=Exit F4=Prompt	F5=Refresh	F12=Cancel	Bottom F13=How to use this display
F24=More keys			
M <mark>A</mark> b			05/037

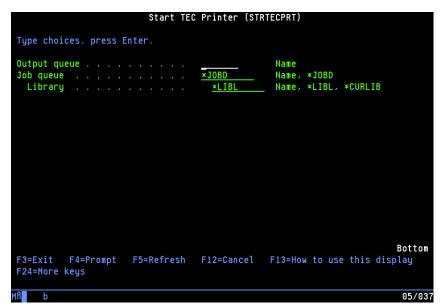
4. The setup is completed.

- The setup is properly completed unless any error messages appear.
- An error message appears when the specified OUTQ name already exists or OUTQ was not generated because a parameter value is in error.
- If an error message appears or you stopped a command by pressing [F12] or [F3], execute the command [TECSETQ] + [F4] again.

Step 3: Starting up auto assign (resident) program

This section describes how to start up auto assign (resident) program.

- NOTE: It is recommended to load the auto assign (resident) program into IPL.
 - **1.** Login as a user with QSECOFR authority.
 - 2. Execute the command below to add a library "WTEC02" to the top of the library list. ADDLIBLE WTEC02
 - Execute a command [STRTECPRT] + [F4]. Then select the name of OUTQ that you specified at the installation or setup, a job queue to use and its library. Then press the execution key.
- NOTE: If you use a job queue and the library at their initial values, this program will run within QBATCH.



4. The program is started up.

- Execute a command [WRKACTJOB] to display the list. If the status of this program is displayed as "DEQA" in the list, the program is properly started up.
- If the name of OUTQ to be monitored or a job queue to be used is incorrect, the status of this program is displayed as "MSGW" in the list. In this case, confirm the message and then execute the command [STRTECPRT] + [F4] again.

	Wo	ork with	Active	e Jobs	07/10/09	S65AA1FB 13:34:24
CPU %: .9 E	lapsed time	e: 00:	00:08	Active jobs		13.34.24
Type options, press 2=Change 3=Hold 8=Work with spool	4=End			6=Release 7: 	=Display me	essage
Opt Subsystem/Job	User	Туре	CPU %	Function	Status	
ENG2924	QSYS	SBS	. 0		DEQW	
 E2924BB1	PGMR20ENG	INT	. 8	CMD-WRKACTJO	B RUN	
QBATCH	QSYS	SBS	. 0		DEQW	
QBATCH TEC1 QCMN QCTL QSYSSCD	PGMR20ENG	BCH	. 0	PGM-TTEC000	DEQW	
QCMN	QSYS	SBS	. 0		DEQW	
QCTL	QSYS	SBS	. 0		DEQW	
QSYSSCD	QPGMR	BCH	. 0	PGM-QEZSCNEP	EVTW	
QINTER	QSYS	SBS	. 0		DEQW	
QPADEV000B	SSL21	INT	. 0	PGM-@SSLSET	DSPW	
						More
Parameters or comma ===>	nd					
F3=Exit F5=Refres	h F7=	=Find	F10:	Restart stati	stics	
F11=Display elapsed				More options		keus
			. 123	nore options	124-1101 6	Regu
MA b						13/002

Uninstallation procedure

Step 1: Uninstalling WorkStation Customization Object for TOSHIBA e-STUDIO

- 1. Execute a command [WRKACTJOB] and then select a resident OUTQ monitoring program. Then enter option "4". Now the resident program exits.
- NOTE: Turn the power of the printer to be used OFF before starting uninstallation; otherwise the program will exit in the middle of the uninstallation.

		W	ork with	Active	e Jobs		S65AA1FB
CPU	%: .5 E	lapsed tim	e: 00:	21:20	Active job	07/10/09 s: 180	3 13:55:36
2=	options, press Change 3=Holo Work with spool	d 4=End				=Display me	essage
Opt	Subsystem/Job	User	Туре	CPU %	Function	Status	
	ENG2924	QSYS	SBS	. 0		DEQW	
	+E2924BB1	PGMR20ENG	INT	. 0	CMD-WRKACTJO	B RUN	
	QBATCH	QSYS	SBS	. 0		DEQW	
4	TEC1	PGMR20ENG	BCH	. 0	PGM-TTEC000	DEQW	
	QCMN	QSYS	SBS	. 0		DEQW	
	QCTL	QSYS	SBS	. 0		DEQW	
	QSYSSCD	QPGMR	BCH	. 0	PGM-QEZSCNEP	EVTW	
	OINTER	OSYS	SBS	. 0		DEQW	
	QPADEV000B	SSL21	INT	. 0	PGM-@SSLSET	DSPW	
							More
Para ===>	meters or comma	and					
F3=E	xit F5=Refree	sh F7	=Find	F10=	Restart stati	stics	
F11=	Display elapsed				More options		keys
MA	b			A			13/002

2. Execute a command [DLTOUTQ OUTQ(library name / OUTQ name^{*1})] to delete the OUTQ specified at the installation.

*1: It shall be the OUTQ name specified at the installation or the setup.



3. Execute a command [ENDWTR OUTQ name^{*1} 01*IMMED] to disconnect the printer.

*1: It shall be the OUTQ name specified at the installation or the setup.

NOTE: • The part "01" after the OUTQ name shall be changed from "01" through "07" as you repeat this command seven times.

MAIN Select one of the following:	OS/400 Main Menu	Syste	m: \$65AA1FB
 User tasks Office tasks General system tasks Files, libraries, and Programming Communications Define or change the sister of the sister	ystem options		
90. Sign off			
<pre>Selection or command ===> ENDWTR TEC101 *IMMED</pre>			
F3=Exit F4=Prompt F9=Retri F23=Set initial menu	eve F12=Cancel	F13=Information	Assistant
M£ b	A		20/007

4. Execute a command [WRKOUTQ OUTQ name^{*1*}] to confirm that no spool remains.

*1: It shall be the OUTQ name specified at the installation or the setup.

MAIN Select one of th		400 Main Menu	Syste	em: S65AA1FB
4. Files, 1 5. Program 6. Communic 7. Define C 8. Problem 9. Display 10. Informat	tasks system tasks libraries, and fold ning cations or change the system handling	n		
90. Sign off Selection or com ===> <u>WRKOUTQ TEC</u>	nmand			
F3=Exit F4=Pro F23=Set initial		F12=Cancel	F13=Information	Assistant
M <u>A</u> b		A		20/020

2=Cha	tions, press E nge 3=Hold k with Writers	4=Delete	5=Work with	6=Release	8=Description
Dpt 	Queue TEC0101 TEC0102 TEC0103 TEC0104 TEC0105 TEC0106 TEC0107	Library WTRTTEC02 WTRTTEC02 WTRTTEC02 WTRTTEC02 WTRTTEC02 WTRTTEC02	Files 0 0 0 0 0 0 0	Writer	Status RLS RLS RLS RLS RLS RLS
Command ===>					Botto

If "Files" is a value other than "0" and also there are remaining spools, select option "5" to delete the remaining spools.

5. Execute a command [DLTLIB WTEC02] to delete the product library.

MAIN Select one of the following:	OS/400 Main Menu	Syste	m: S65AA1FB
 User tasks Office tasks General system tasks Files, libraries, and f Programming Communications Define or change the system of the syst	ystem options		
===> <u>DLTLIB WTRTTEC02</u>			
F3=Exit F4=Prompt F9=Retrie F23=Set initial menu	eve F12=Cancel	F13=Information	Assistant
M <u>A</u> b			20/023

Operational procedure

Follow the procedure below to operate the WorkStation Customization Object for TOSHIBA e-STUDIO.

1. Specify print file script (ORIENTATION, STAPLE, DUPLEX and DRAWER) for a document to be printed with the MFP. For the details of file script parameters, see the following page:

P.45 "Print file script"

2. Change a job to alter the OUTQ specified at the installation or the setup to the one for printing functions.

3. Start up the auto assign (resident) program.

For starting up, see the following page:

NOTE: • Start up the resident program every time you execute IPL.

4. Perform routine work.

When you are performing routine work, you do not need to particularly pay attention to this function.

5. Finish a job.

Finish a job in any of the following methods:

- Execute a command [WRKACTJOB]. Then select a job to be finished and select Option "4". Then press the execution key.
- Execute a command [ENDSBS] and then exit the corresponding sub system.
- NOTE: Turn the power of the printer to be used OFF before starting the operation; otherwise the program will exit in the middle of the operation.

Print file script

Specify print file script below according to the printing style of a document to be printed with an MFP.

Print	ting Style		Attribute
ORIENTATION	Portrait Landscape	PAGRTT	: *AUTO (Leave it default.) Or select "0" : 90
STAPLE	TOP_LEFT TOP_RIGHT LEFT_DOUBLE TOP_DOUBLE	CORNERSTPL	
DUPLEX	LONG_EDGE SHORT_EDGE	DUPLEX	: *YES : *TUMBLE Printing directions on the back sides differ depending on the orientation. See "Printing directions on the back side (DUPLEX)" on the next page.
DRAWER	AUTO	DRAWER	: 1 (Leave it default.)

Example:

The examples of commands for print file script are as follows:

Portrait + DUPLEX SHORT_EDGE + STAPLE TOP_LEFT:

CHGPRTF FILE (library name / spool file name) DUPLEX(*TUMBLE) CORNER-STPL(*TOPLEFT)

Automatic drawer selection

In case of LT/A4, the orientation of the paper is reversed when "TOP_DOUBLE" and "STAPLE" are selected together. Therefore the drawer in this case shall be selected as follows:

LT/A4 (Portrait) + STAPLE TOP_DOUBLE:

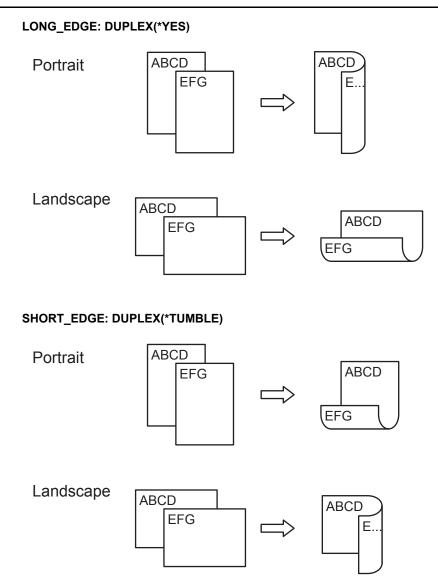
DRAWER: LT-R/A4-R

LT/A4 (Landscape) + STAPLE TOP_DOUBLE:

DRAWER: LT/A4

Printing directions on the back side (DUPLEX)

The examples of printing directions on the back side of the paper in case of "DUPLEX" are shown below.



Stapling specifications

		Printing	g Specifications			A	vaila	ble Si	zes			
	OUTQ*1	Por- trait/ Land- scape	STAPLE	LT	LG	LD	А3	A4	FO	сом	ST	Remarks
1	xxxxxxx01	Portrait	OFF	√	~	~	~	~	~	~	~	Rotational degrees PAGRTT = *AUTO or 0
		Land- scape	OFF	~	~	~	~	~	~	~	~	Rotational degrees PAGRTT = 90
2	xxxxxx02	Portrait	TOP_LEFT	~	~	~	~	~	~	√	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *TOPLEFT
3	xxxxxx03	Portrait	TOP_RIGHT	~	~	~	~	~	~	~	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *TOPRIGHT
		Land- scape	TOP_LEFT	~	~	~	~	~	~	~	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *TOPLEFT
4	xxxxxx04	Portrait	TOP_DOUBLE	✓ LTR	~	~	~	✓ A4R	~	~	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *BOTRIGHT
		Land- scape	LEFT_DOUBLE	√ LTR	~	~	~	√ A4R	~	~	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *BOTLEFT
5	xxxxxx05	Portrait	LEFT_DOUBLE	✓ LT	-	-	-	√ A4	-	_	-	Rotational degrees PAGRTT = *AUTO or 0 Stapling position CORNERSTPL = *BOTLEFT
6	xxxxxxx06	Land- scape	TOP_RIGHT	~	~	~	~	~	~	~	-	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *TOPRIGHT
7	xxxxxxx07	Land- scape	TOP_DOUBLE	✓ LT	_	-	-	Á4	_	-	_	Rotational degrees PAGRTT = 90 Stapling position CORNERSTPL = *BOTRIGHT

*1: OUTQ numbers assigned by resident programs.

Printing character size - Reference values

Paper Size	CPI	Line	Char.	Remarks
LT	CPI(10)	66	80	Komarko
	CPI(15)	66	120	
LT-R	CPI(10)	51	110	
	CPI(10) CPI(15)	51	163	Number of characters: 158
LG		31 84	80	
LG	CPI(10)			
	CPI(15)	84	120	
LG-R	CPI(10)	51	140	
	CPI(15)	51	210	Number of characters: 204
LD	CPI(10)	102	103	PAGRTT(0)
	CPI(15)	102	120	PAGRTT(0)
LD-R	CPI(10)	66	170	
	CPI(15)	66	255	Number of characters: 249
A3	CPI(10)	99	105	PAGRTT(0)
	CPI(15)	99	157	PAGRTT(0)
A3-R	CPI(10)	70	160	
	CPI(15)	70	240	
A4	CPI(10)	70	72	
	CPI(15)	70	108	
A4-R	CPI(10)	49	110	
	CPI(15)	49	165	
CO	CPI(10)	84	101	PAGRTT(0)
	CPI(15)	84	151	PAGRTT(0)
CO-R	CPI(10)	61	140	
	CPI(15)	61	210	
FO	CPI(10)	77	72	
	CPI(15)	77	108	
FO-R	CPI(10)	50	130	
	CPI(15)	50	195	
ST	CPI(10)	51	55	
	CPI(15)	51	82	
ST-R	CPI(10)	33	85	
	CPI(15)	33	125	

* All paper sizes noted "-R" are rotated in "PAGRTT (90)".

Glossary

Definitions of Terms

Term	Definition
DLC	Data Link Control, the data link layer protocol.
Duplex	The process of printing on both sides of a sheet of paper.
Finishing option	A feature provided by TOSHIBA printers and copiers for doing such things as stapling and hole punching documents.
Gateway address	The default address that provides a single point of entry to a network.
IP Address	Internet P rotocol address of a computer or server attached to a network.
PCL	Printer Control Language, developed by Hewlett Packard.
Print stream	The information the AS/400 sends to its printer port. This information includes the text to be printed and various print commands for formatting the text and graphics.
Subnet mask	The method used for splitting IP networks into a series of subnets (subgroups).

DP-2090/2520/3000/3570/4570 DP-5550/6550/7550/8550 FC-2020C/2330C/2820C/2830C/3520C/3530C/4520C FC-5520C/6520C/6530C DP-1670/2070/2370 FC-2500C/3500C/3510C DP-1650/2040 FC-281C/351C(451C DP-5200/6000/7200/8500 DP-3540/4540 DP-2050/2340/2840 DP-1830/2120/2420 OME06005510 Guidance for AS/400 Print Solution

C-STUDIO 520/600/720/850 C-STUDIO281c/351c/451c C-STUDIO352/452 C-STUDIO202L/232/282 C STUDIO2500c/3500c/3510c C-STUDIO165/205 C - STUDIO 167/207/237 C-STUDIO 523/603/723/853 C-STUDIO353/453 C-STUDIO203L/233/283 C-studio2020c/2330c/2820c/ 2830c/3520c/3530c/4520c C-STUDIO 5520c/6520c/6530c C-STUDIO283c/353c/453c C-STUDIO205L/255/305/355/455 C:STUDIO 555/655/755/855 C-STUDIO182/212/242

TOSHIBA TEC CORPORATION

2-17-2, HIGASHIGOTANDA, SHINAGAWA-KU, TOKYO, 141-8664, JAPAN

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