ApeosPort® Reference Guide Appendix

A guide describing the emulation mode, direct print, web applications, etc.

- This manual may not be edited, modified or copied in whole or in part without the written consent of the publisher.
- Parts of this manual are subject to change without prior notice.
- The screen shots and the illustrations in this manual are used as examples. They may differ from yours depending on the model, the software, or the OS.

Emulation

Print data follows specific rules (grammar). These rules (grammar) are called "print language".

Print language, with which this product is compatible, can be categorized into page description language that generates images for each page and emulation that can produce results closer to print results made by other printers.

Emulation Mode

Emulation mode	Printer to be emulated
ESC/P	LQ1900K II+
PCL	HP-CLJ5500 (color), HP-LJ4200 (black and white)
HP-GL	7586B or DJ750C Plus
HP-GL/2	DJ750C Plus



• For details of each mode, contact your Fuji Xerox representative.

Changing the print language

This product is compatible with multi-emulation. Due to this, you can switch the corresponding print language.

Changing the command

There are commands to change the corresponding print language.

Automatic change

The product analyzes the data received by the host interface and automatically identifies the print language.

■ Protocol dependence

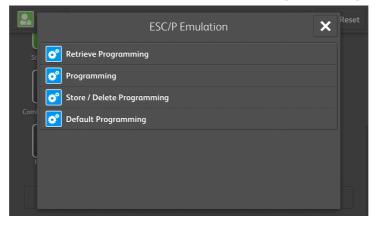
You can fix the print language for each protocol (LPD, IPP, Port9100, WSD) by using CentreWare Internet Services.



• "WSD" stands for Web Services on Devices.

Mode menu screen

This screen is displayed when the emulation mode is selected on the [Print Mode] on the home screen.



☐ Note

- [Retrieve Programming], [Store/Delete Programming], and [Default Programming] are displayed on ESC/P and HP-GL/2.
- You can follow the same procedure with CentreWare Internet Services.

■ Retrieve Programming

Retrieve settings stored in the memory.

Programming

Enter the Item Number for the function in [Item Number] to display the current setting.

Enter the new value in [New Value] and tap on [Save] to change the setting.

Refer

• Refer to "Items" (p.14) for Item Number.

■ Store/Delete Programming

You can store the current Items details in [Custom Settings] and delete stored memory.

Default Programming

Set the default values.

Available font

Go to [Device] > [Information & Reports] > [Print Reports] > [Printer Reports] and tap on [Font List] or [PCL Font List] to check the available fonts.

User-defined characters (external fonts) can be used with ESC/P.

User-defined characters are registered as bit map fonts and saved even after the power is turned off. Sharing between print languages is not possible.

Print function

Emulation mode	N Pages	Form	Barcode
ESC/P	Yes	64	Yes
PCL	_	_	Yes
HP-GL, HP-GL/2	_	_	_

N Pages

2 pages are available.

■ Form

You can register standard forms and print the registered forms by synthesizing them into print data.



- If you try to register more forms than the maximum number of forms to be registered or if the form memory reaches full capacity, new forms cannot be registered.
- Check form registration by going to [Device] > [Information & Reports] > [Print Reports] > [Printer Reports] > [ART IV, ESC/P User Defined List].

■ Barcode

Barcode standards available are JAN code, CODE39, CODABAR, Industrial 2 of 5, Matrix 2 of 5, and Interleaved 2 of 5.

Barcode standards available for PCL are JAN code, CODE39, CODABAR, Interleaved 2 of 5, CODE128, Postal barcode, and QR code.

Go to [Device] > [Information & Reports] > [Print Reports] > [PCL Font List] to specify commands.

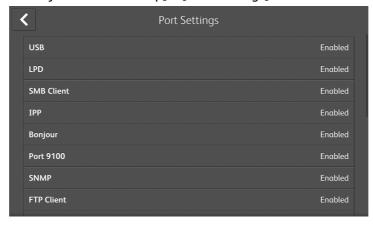
Device menu

Log into the device administrator mode.

Emulation mode	Port Settings	Allocate Memory	Delete Form
ESC/P	Yes	Yes	Yes
PCL	Yes	_	_
HP-GL, HP-GL/2	Yes	Yes	_

Port Settings

Tap on [Device] > [Connectivity & Network Setup] > [Port Settings] to enable/disable the port.



• Enable port (USB/LPD/IPP/Port9100/WSD)

Tap on the port to be used in the emulation mode.

• USB-print mode specification

You can specify the processing method for data received from the host device. If you select the emulation mode here, "automatic change" explained in "Changing the print language" (p.2) will not be performed.



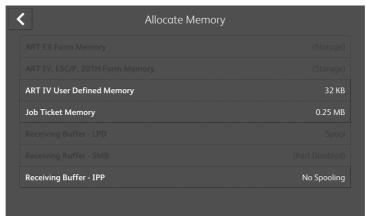
• You can also specify the print mode for each protocol by using CentreWare Internet Services.

■ Allocate Memory

Tap on [Device] > [App Settings] > [Print Settings] > [Allocate Memory].

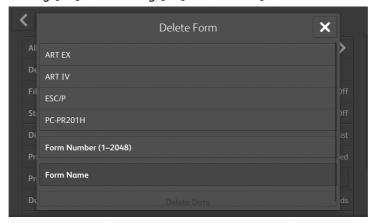
☐ Note

• If storage is attached, the settings cannot be changed.



■ Delete Form

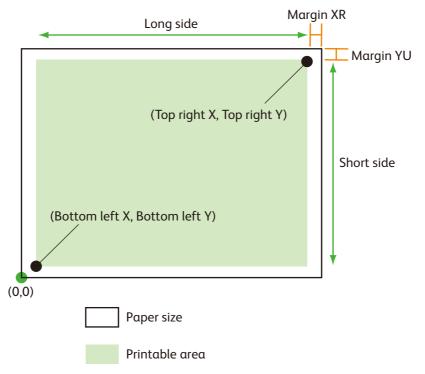
Tap on [Device] > [App Settings] > [Print Settings] > [Delete Form] and select the mode to delete a form.



HP-GL, HP-GL/2 Emulation-specific Matters

Printable area

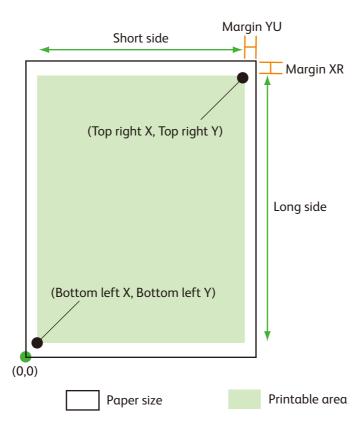
♦ SEF



Paper size		length 200")			Coordinate value (1/7200")					
	X direction	Y direction	Margin		Printab	le area	Top righ	t corner	Мα	rgin
	Length	Width	Bottom left X	Bottom left Y	Long side	Short side	Top right X	Top right Y	XR	YU
A3	119052	84168	1260	1260	116532	81648	117792	82908	1260	1260
A4	84168	59508	1260	1260	81648	56988	82908	58248	1260	1260
A5	59508	41940	1260	1260	56988	39420	58248	40680	1260	1260

Paper size		length 200")			Coordinate value (1/7200")							
	X direction	Y direction	Margin		Margin		Printab	le area	Top righ	it corner	Μα	rgin
	Length	Width	Bottom left X	Bottom left Y	Long side	Short side	Top right X	Top right Y	XR	YU		
JIS B4	103176	72828	1260	1260	100656	70308	101916	71568	1260	1260		
JIS B5	72828	51588	1260	1260	70308	49068	71568	50328	1260	1260		

♦ LEF



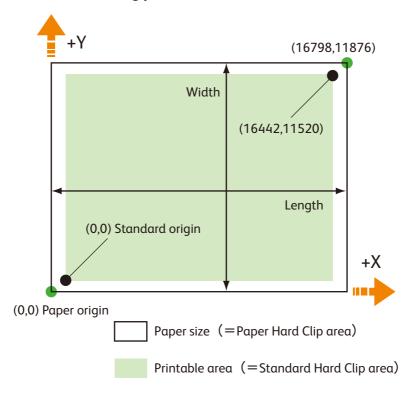
Paper size		length 200")			Coordinate value (1/7200")					
	X direction	Y direction	Margin		Printat	ole area	Top righ	t corner	Μα	rgin
	Length	Width	Bottom left X	Bottom left Y	Long side	Short side	Top right X	Top right Y	XR	YU
A3	84168	119052	1260	1260	81648	116532	82908	117792	1260	1260
A4	59508	84168	1260	1260	56988	81648	58248	82908	1260	1260
A5	41940	59508	1260	1260	39420	56988	40680	58248	1260	1260
JIS B4	72828	103176	1260	1260	70308	100656	71568	101916	1260	1260
JIS B5	51588	72828	1260	1260	49068	70308	50328	71568	1260	1260

Hard Clip

Area determined by coordinates is called Hard Clip area.

Hard Clip area is determined by the printable area or paper size.

◆ When the size is A3 and the starting point is the bottom left



Standard

Printable area of this device is the Hard Clip area.

Paper

Same size as the paper is the Hard Clip area.

Auto Layout

Printed area is automatically determined based on the specified items, such as the document size and paper size.

Document size

You can enable "Auto Layout" by selecting "Auto" (default value).

Auto Layout

You can enable "Scale", "Scale mode", "Area determination mode", and "Paper margin" by selecting "ON" (default value).

■ Scale

Enlarge/reduce the printed area to fit the drawn object area in the paper size.

■ Scale mode

◆ Paper size

Document size is determined based on the drawn object area. Sizes to be determined are A sizes (6 types from A0 through A5).

♦ Object area

Document size is determined based on the starting point of the drawn object area.

Area determination mode



• The object area is determined in Adapted without a command.

♦ Auto

It is automatically selected when the priority is PS > IW > IP > Adapted.

◆ PS

Area including the area specified by the PS command in the beginning is the object area.

♦ IW

Area specified by the last IW command within the data is the object area.

♦ IP

Area specified by all IP commands is the object area.

♦ Adapted

Object area is determined automatically.

■ Paper margin

You can specify the margin.

■ Pen attribute

You can specify the setting for the pen to draw the boundary lines for the Hard Clip area.

There are 16 pen types (No.00 through No.15) available.

♦ Pen width

If reduced by the combination of the "document size" and "paper size", the pen width is also reduced.

Line width grows thicker from the center of the line.

If the width is 0.0 mm, nothing will be drawn.

◆ Pen end shape

You can specify the end shape for the pen.



◆ Pen connection shape

You can specify how pen lines are processed when connected.

☐ Note

- "None" has the shortest processing time and is suitable for checking.
- If symbols are specified by symbol mode commands, connection process is not performed. Symbol mode commands refer to HPGL commands that specify symbols.
- They are not valid for characters.

♦ Pen color

Pen colors are specified with RGB.

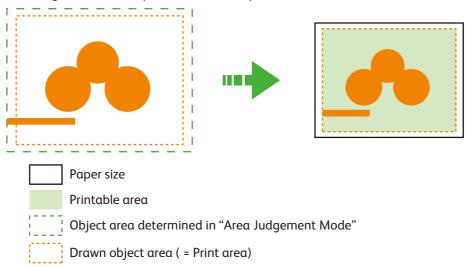
♦ Pen intensity

You can specify the pen intensity.

■ Item combination examples in Auto Layout

◆ Scale mode : Paper size, scale : ON

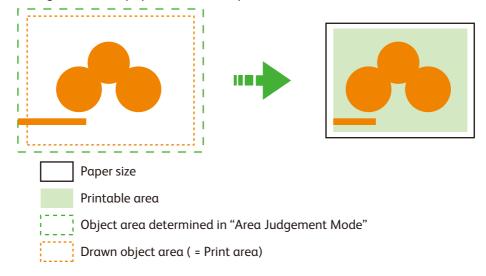
Image is reduced/enlarged within the printed area and printed.



♦ Scale mode : Paper size, scale : OFF

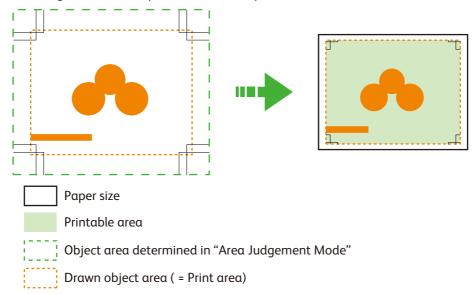
Image is printed in the actual size.

Due to this, areas larger than the paper size are not printed.



◆ Scale mode : Object area, scale : ON

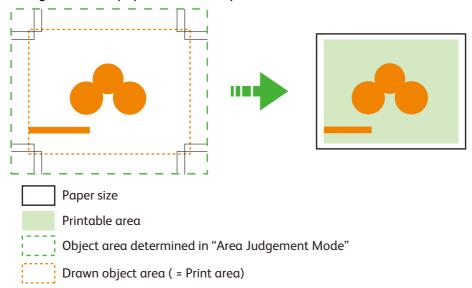
Image is reduced/enlarged within the printed area and printed.



◆ Scale mode : Object area, scale : OFF

Image is printed in the actual size.

Due to this, areas larger than the paper size are not printed.



■ How to determine the document size

- 1. The largest value among the following values is added as the margin to the object area determined in the "area determination mode".
 - Character size specified within the page
 - Default character size
 - · Half of specified pen width
- 2. "Object area determined in the area determination mode" + "added margin" "specified paper margin" will be the drawn object area.

3. If the "scale mode" is "paper size", the document size is determined based on the drawn object area.

If the "scale mode" is "object area", the document size is determined based on the starting point of the drawn object area.

◆ Determination method example

If Auto Layout = ON, Document size = Auto, Scale mode = Paper size, Area determination mode = IP, Paper margin = 10 mm, and Pen width = 0.1 mm

IN;

IP-8399,-5938,8399,5938;

IW-8399,-5938,8399,5938;

PU:

SP1:

:

SP0;



- There is no character size specification command, and area specified by IP and IW is A3.
- Determination method
- 1. Areas "-8399, -5938, 8399, 5938" specified by IP commands are the object areas.
- 2. There is no character size specification command, and the pen width is 0.1 mm, so half of the A3 size default character size height (75 plotter unit) is added to the object area.

Object area at this point: -8474,-6013,8474,6013

Paper margin (10 mm) is removed from the object area.

Object area at this point: -8074,-5613,8074,5613

- 4. Since the drawn object area (printed area) is greater than A4 and equal to or smaller than A3, the document size is A3.
- How to determine the paper size
- ♦ If "Document size" is "Auto" and "Paper supply tray" is "Auto".
- If the "scale mode" is "paper size" and the same paper size as the document size is set in the tray, the paper size is the same as the document size
- If the "scale mode" is "object area", the paper size is the object area determined in the area determination mode



- If the same paper size is not available, the next size is selected.
 - Exceeding the maximum size : Maximum size
 - Under the minimum size : Minimum size
 - Between the minimum and maximum sizes: Fitting size

How to determine the reduction rate

◆ If "Document size" is "Auto" and "Scale mode" is "Paper size"

Reduction rate is determined by the drawn object area and "Paper size". Hard Clip area is "Paper".

- If Auto Layout is "ON", document is placed at the center of the paper.
- If the starting point is the bottom left or center, the starting points of the document and paper are aligned.
- If the reduction rate is less than 22.5% (such as A0 -> A5), it will be the actual size.

◆ If "Document size" is "Auto" and "Scale mode" is "Object area"

Reduction rate is determined by the starting point of the drawn object area and paper size. Hard Clip area is "Standard".

Maximum scale value is 210.0 %, and the minimum scale value is 22.5 %.

Paper		C)°		90°					
size	Minimu	Minimum value		nimum value Maximum value		Minimu	m value	Maximum value		
	P2x - P1x	P2y - P1y	P2x - P1x	P2y - P1y	P2x - P1x	P2y - P1y	P2x - P1x	P2y - P1y		
A3	7829	5485	73075	51200	5485	7829	51200	73075		
A4	5485	3828	51200	35733	3828	5485	35733	51200		
A5	3828	2648	35733	24720	2648	3828	24720	35733		
JIS B4	6762	4723	63120	44088	4723	6762	44088	63120		
JIS B5	4723	3297	44088	30773	3297	4723	30773	44088		

Unit: Plotter unit

Items

Item descriptions are ESC = ESC/P, PCL = PCL, HP = HP-GL, and HP-GL/2.



 $\bullet\,$ You can follow the same procedure with CentreWare Internet Services.

Items		Item N	lumber	Specification value
	ESC	PCL	HP	
Document size	1	_	_	[0] : Postcard
				[3]: A3
				[4] : A4
				[5] : A5
				[14] : JIS B4
				[15] : JIS B5
				[21] : 8.5 x 14
				[22] : 8.5 x 13
				[23] : 8.5 x 11
				[24] : 11 x 17
				[99] (default value) : Paper size
				[100] : Continuous paper (10 x 12)
				[101] : Continuous paper (10 x 11)
				[102] : Continuous paper (15 x 12)
				[103] : Continuous paper (15 x 11)
				 If continuous paper is specified, you cannot specify "paper position".
				•
Document size	-	_	101	[0] : A0
				[1]: A1
				[2]: A2
				[3]: A3
				[4] : A4
				[5]: A5
				[10] : JIS BO
				[11] : JIS B1
				[12] : JIS B2
				[13] : JIS B3
				[14] : JIS B4
				[15] : JIS B5
				[99] (default value) : Auto
				[100] : Paper size

Items		Item N	lumber	Specification value
	ESC	PCL	НР	
Paper size	2	_	_	[0] : Postcard
If "Paper				[3]: A3
supply tray" is				[4] : A4
"Auto" or "Tray 5 (hand feed)"				[5] : A5
				[14] : JIS B4
				[15] : JIS B5
				[21] : 8.5 x 14
				[22] : 8.5 x 13
				[23] : 8.5 x 11
				[24] : 11 x 17
Paper size	-	_	102	[3]: A3
If "Paper				[4] : A4
supply tray" is "Auto" or "Tray				[5] : A5
5 (hand feed)"				[14] : JIS B4
				[15] : JIS B5
				[99] : Auto
				[101] (default value) : A size
Paper size	-	202	_	[3]: A3
If "Paper				[4] (default value) : A4
supply tray" is "Auto".				[5]: A5
Auto .				[14] : JIS B4
				[15] : JIS B5
				[21]: 8.5 x 14
				[22]: 8.5 x 13
				[23] : 8.5 x 11
				[24]:11 x 17
				[25] : User defined paper
				[30]:8K
Paper size	1	203	_	[3]: A3
If "Paper				[4] (default value) : A4
supply tray" is "Hand feed				[5] : A5
tray".				[14] : JIS B4
				[15]: JIS B5
				[21]: 8.5 x 14
				[22] : 8.5 x 13
				[23]: 8.5 x 11
				[24]:11 x 17
				[25] : User defined paper

Items		Item N	lumber	Specification value
	ESC	PCL	HP	
Paper supply	3	201	103	[0] : (default value : PCL, HP-GL/2) Auto
tray				[1] : (default value : ESC/P) Tray 1
				[2] : Tray 2
				[3] : Tray 3
				[4] : Tray 4
				[5] : Tray 5 (hand feed)
				[6] : Tray 6
				□ Note
				 If "Auto" is specified and if the same size paper is set in multiple trays in the
				same paper direction, the paper is supplied in the order of Tray 1 > Tray 2 > Tray 3 > Tray 4 > Tray 6. If the same size paper is set in multiple trays in
				different directions, paper set SEF is supplied first.
Coordinate rotation	_	_	104	[0] (default value) : 0 °
Totation				[1]: 90°
Color mode	5	_	_	[0] (default value) : Color
 ☐ Note				[1] : Black and white
This setting	_	216	_	[0] (default value) : Auto
is valid for color				[1] : Color
printers.				[2] : Black and white
	_	_	105	[0] (default value) : Color
				[1] : Grey scale
				[2] : Black pen
Depth mode	_	_	105	[1] (default value) : Grey scale
☑ Note				[2] : Black pen
This setting				
is valid for black and				
white				
printers.			100	
Auto Layout	_	_	106	[0] (default value) : ON
			107	[1]: OFF
Palette priority specification	_	_	107	[0] (default value) : Command
				[1] : Panel
Number of outputs	8	_	108	[1] to [250] (default value : 1) : 1 to 250
3277263				□ Note
				 If the client PC specifies the number of printed copies, the value is reflected and printed. After printing, the setting on the operation panel will also be this value. However, the number of copies specified by the lpd port does not change.
	_	212	_	[1] to [999] (default value : 1) : 1 to 999
				, , , , , , , , , , , , , , , , , , , ,

Items		Item N	lumber	Specification value
	ESC	PCL	HP	
Ejected to	9	204	109	[0] : (default value) : Center tray (lower level)
				[1] : Side tray (optional)
				[2] : Center tray (upper level) (optional)
				[80] : Finisher tray (optional)
				[81] : Finisher ejection tray (optional)
2 sided	12	_	110	[0] (default value) : None
				[1] : Opened horizontally
				[2] : Opened vertically
	_	206	_	[0] (default value) : OFF
				[1]: ON
Binding	_	217	_	[0] (default value) : Long side binding
method if 2 sided				[1] : Short side binding
Paper direction	19	205	_	[0] (default value) : Vertical
				[1] : Horizontal
Paper position	20	_	_	[0] (default value) : No cut sheet feeder (left)
 ☐ Note				[1] : With cut sheet feeder (center)
This cannot				₽ Note
be specified if				If there is no cut sheet feeder, the number of lines specified by VFU is fed
"Continuous				when FF (page break command) is received. If there is a cut sheet feeder, there will be a page break.
paper" is specified in	_	_	_	
"Document size".				
Scale mode	54	_	_	[0] (default value) : Fixed scale
				[1] : Arbitrary scale
				[2] : Entire cut paper
				☑ Note
				"Fixed scale" refers to the scale automatically calculated based on the
				specified "Document size" and "Paper size", and the printable area for the
				document size is printed to fit within the printable area of the paper size. Due to this, if the document size and paper size are the same, it is printed at
				100 % (scale). If the specification is 2 pages, 2 pages worth of document
				size is printed to fit within the printable area of one paper size. • "Arbitrary scale" refers to the scale specified in "Scale" > "Arbitrary scale".
				The reference value of the scale is the top left of the printable area. This is the reference point for all characters, images, and graphics.
				• The entire cut paper area is printed in the printable area.
				"Entire cut paper area" refers to the scale automatically calculated based on the specified "Document size" and "Paper size", and the physical paper size
				for the specified document size is printed to fit within the printable area of the paper size.
				• If continuous paper is specified in "Document size", "Fixed scale" and "Entire
				cut paper area" produce the same printing result.

Items		Item N	lumber	Specification value
	ESC	PCL	HP	
Arbitrary scale/ vertical scale	17	-	_	[45] to [210] (default value : 100) : 45 to 210 %
Arbitrary scale/ horizontal scale	18	_	_	
Grid	22	_	_	[0] (default value) : Image
				[1] : Font
				₽ Note
				You can specify the printing method for 2 byte grid font.
Default font	_	207	_	[0] : CG Times
				[1] : CG Times Italic
				[2] : CG Times Bold
				[3] : CG Times Italic Bold
				[4] : Univers Medium
				[5] : Univers Medium Italic
				[6] : Univers Bold
				[7] : Univers Bold Italic
				[8] : Univers Medium Condensed
				[9] : Univers Medium Condensed Italic
				[10] : Univers Bold Condensed
				[11] : Univers Bold Condensed Italic
				[12] : Antique Olive
				[13] : Antique Olive Italic
				[14] : Antique Olive Bold
				[15] : CG Omega
				[16] : CG Omega Italic
				[17] : CG Omega Bold
				[18] : CG Omega Bold Italic
				[19] : Garamond Antiqua
				[20] : Garamond Kursiv
				[21] : Garamond Halbfett
				[22] : Garamond Kursiv Halbfett
				[23] (default value) : Courier
				[24] : Courier Italic
				[25] : Courier Bold
				[26] : Courier Bold Italic
				[27] : Letter Gothic
				[28] : Letter Gothic Italic
				[29] : Letter Gothic Bold
				[30] : Albertus Medium
				[31] : Albertus Extra Bold

Items		Item N	lumber	Specification value
	ESC	PCL	HP	
Default font	_	207	_	[32] : Clarendon Condensed
				[33] : Coronet
				[34] : Marigold
				[35] : Arial
				[36] : Arial Italic
				[37] : Arial Bold
				[38] : Arial Bold Italic
				[39] : Times New
				[40] : Times New Italic
				[41] : Times New Bold
				[42] : Times New Bold Italic
				[43] : Symbol
				[44] : Wingdings
				[45] : Line Printer
				[46] : Times Roman
				[47] : Times Italic
				[48] : Times Bold
				[49] : Times Bold Italic
				[50] : Helvetica
				[51] : Helvetica Oblique
				[52] : Helvetica Bold
				[53] : Helvetica Bold Oblique
				[54] : CourierPS
				[55] : CourierPS Oblique
				[56] : CourierPS Bold
				[57] : CourierPS Bold Oblique
				[58] : SymbolPS
				[59] : Palatino Roman
				[60] : Palatino Italic
				[61] : Palatino Bold
				[62] : Palatino Bold Italic
				[63] : ITC Bookman Light
				[64] : ITC Bookman Light Italic
				[65] : ITC Bookman Demi
				[66] : ITC Bookman Demi Italic
				[67] : Helvetica Narrow
				[68] : Helvetica Narrow Oblique
				[69] : Helvetica Narrow Bold
				[70] : Helvetica Narrow Bold Oblique
				[71] : New Century Schoolbook Roman

Items		Item N	lumber	Specification value	
	ESC	PCL	НР		
Default font	_	207	_	[72] : New Century Schoolbook Italic	
				[73] : New Century Schoolbook Bold	
				[74] : New Century Schoolbook Bold Italic	
				[75] : ITC Avant Garde Book	
				[76] : ITC Avant Garde Book Oblique	
				[77] : ITC Avant Garde Demi	
				[78] : ITC Avant Garde Demi Oblique	
				[79] : ITC Zapf Chancery Medium Italic	
				[80] : ITC Zapf Dingbats	
Default	_	208	_	[0] (default value) : Roman 8	
symbol				[1] : ISO 8859-1 Latin 1	
				[2] : ISO 8859-2 Latin 2	
				[3] : ISO 8859-9 Latin 5	
				[4] : ISO 8859-10 Latin 6	
				[5] : PC-8	
				[6] : PC-8 DN	
				[7] : PC-775	
				[8] : PC-850	
				[9] : PC-852	
				[10] : PC-1004 (OS/2)	
				[11] : PC Turkish	
				[12] : Windows 3.1 Latin 1	
				[13] : Windows 3.1 Latin 2	
				[14] : Windows 3.1 Latin 5	
				[15] : DeskTop	
				[16] : PS Text	
				[17] : MC Text	
				[18] : Microsoft Publishing	
				[19] : Math 8	
				[20] : PS Math	
				[21] : Pi Font	
				[22] : Legal	
				[23] : ISO 4 United Kingdom	
				[24] : ISO 6 ASCII	
				[25] : ISO 11 Swedish : names	
				[26] : ISO 15 Italian	
				[27] : ISO 17 Spanish	
				[28] : ISO 21 German	
				[29] : ISO 60 Norwegian v1	
				[30] : ISO 69 French	

Items		Item N	lumber	Specification value		
	ESC	PCL	НР			
Default symbol	_	208	_	[31] : Windows 3.0 Latin 1		
symbol				[32] : Windows Baltic		
				[33] : Symbol		
				[34] : Wingdings		
				[35] : UCS-2		
Font size	_	209	_	[400] to [5000] (default value : 1200) : 4.00 to 50.00 points		
Font pitch size	_	210	_	[600] to [2400] (default value : 1000) : 6.00 to 24.00 points		
Number of font lines	_	211	_	[5] to [128] (default value : 64) : 5 to 128 lines		
Vertical	15	_	113	[0] (default value) : None		
position calibration				[1] to [500] : - 250 to + 250 mm		
Horizontal	16	_	114	☑ Note		
position calibration				 You can specify the print position (or Hard Clip area). 		
2 page mode	21	_	_	[0] (default value) : None		
				[1] : Forward direction		
				[2] : Backward direction		
				№ Note		
				 If horizontal is specified in "Document size", the result is the same for both "Forward direction" and "Backward direction". 		
Blank paper	51	_	_	[0] (default value) : None		
ejection				[1] : Yes		
☑ Note						
• This is not				You can specify the blank paper ejection.		
reflected if extension				• If "None" is selected, a blank page is not generated in 2 page print or 2 sided		
command				print. • Blank paper is ejected if there is space created with external fonts or white		
is sent.				objects even if "None" is selected.		
Print digit	52	_	_	[0] (default value) : Standard		
range				[1]: Extension		
				☑ Note		
				You can extend the right margin position.		
				 If the right margin position is specified with a command, the position becomes the right edge. 		
Image	53	213	163	[0] : OFF		
enhancement				[1] (default value) : ON		
Character	55	_	_	[0] (default value) : High grade		
grade				[1] : Draft		

Items	Item Number		Number	Specification value			
	ESC PCL		HP				
Reduced character	56	_	_	[0] (default value): None [1]: Yes Vote Characters can be reduced if alphanumerics are printed.			
Page length	58	_	_	[0] (default value) : 11 inches [1] : 12 inches			
1 inch perforation skip	59	_	_	[0] (default value): None [1]: Yes Provide You can have 1 inch between each page. This specification is enabled only if "No cut sheet feeder" is specified in "Paper position".			
Paper supply position	60	_	_	[0] (default value) : 8.5 mm [1] : 22 mm			
CR function	61	_	ı	[0] (default value): Return [1]: Return line break Value • This is not reflected if extension command is sent. • This affects the print result of 8 bit dot image print command.			
HP-GL mode	_	_	150	[0] (default value): HP-GL [1]: HP-GL/2 Phote This affects IW, OW, and UC commands. If printing HP-GL/2 commands not including BP commands, specify "HP-GL/2".			
Hard Clip	_	_	151	[0] : Standard [2] (default value) : Paper			
Ejection command	_	_	152 (SP)	[0]: OFF [1]: ON			
	_	_	153 (SP0)				
	_	_	154 (NR)	 You can specify the command to indicate the end of drawing. Drawing is ended when the command specified here is received, and paper is ejected. 			
	_	_	155 (FR)	 The default value is "ON" for SPO and "OFF" for commands other than SPO. If multiple commands are specified, drawing is ended and paper is ejected 			
	_	_	156 (PG)	when any of the commands is received.			
	_	_	157 (AF)				
	_	_	158 (AH)				

Items		Item N	lumber	Specification value		
	ESC	PCL	HP			
Scale	_	_	159	[0] : OFF		
				[1] (default value) : ON		
Scale mode	_	_	160	[0] (default value) : Paper size		
				[1]: Object area		
Area	_	_	161	[0] (default value) : Auto		
determination				[1]: PS		
mode				[2]: IW		
				[3]: IP		
				[4]: Adapted		
Paper margin	_	_	162	[0] to [99] (default value : 0) : 0 to 99 mm		
Extension	62	_	_	[0] (default value) : Invalid		
specification				[1]: Valid		
				Regular extension commands specify ESC, which is 1BH in hexadecimal		
				notation, in the beginning, followed by ";" (semicolon = 3BH) as the		
				extension to identify commands. If ESC codes and semicolons cannot be used on the host computer, specific alternate character strings can be used		
				as extensions.		
Extension	63	_	_	[&%] (default value): 0x21 to 0x7e		
				 ☐ Note		
				• In order to be able to control with text codes, specify the extension of		
				extension command (first 2 bytes). Enter 2 characters on the keyboard displayed on the screen.		
Form	64	_	_	[0] (default value) : None		
composition				[1] to [64] : No.1 to No.64		
₩ Note						
• This is not				₩ Note		
reflected if				 The form name displayed even after the form is deleted after specifying the form. In this case, the form is not composed. 		
extension command						
is sent.						
Stapling	66	_	164	[0] (default value) : None		
				[1]: 1 location on top left		
				[2]: 2 locations on top		
				[3]: 1 location on top right		
				[4]: 2 locations on left		
				[5]: 2 locations on right		
				[6]: 1 location at bottom left		
				[7]: 2 locations at bottom		
Hand food	67		165	[8]: 1 location at bottom right		
Hand feed paper supply	67	_	165	[0] : (Default value) No		
pause				[1] : Yes		

Items	Item Number		lumber	Specification value				
	ESC PCL		HP					
Punch	69	-	166	[0] (default value): None [1]: Top [2]: Bottom [3]: Left [4]: Right				
Number of punched holes	70	_	167	[0] (default value): 2 holes [1]: 3 holes [2]: 4 holes				
Binary data (command is entered in hexadecimal notation) specification character string	72	_	-	[0] (default value) : OFF [1] : &\$ % \$ [2] : \$?!#				
0 font	73	_	1	[0] (default value) : 0 [1] : Ø				
HexDump	_	214	_	[0] (default value) : OFF [1] : ON				
Grey print	_	215	_	[0] (default value) : OFF [1] : ON				
Line end process	_	218	1	[0] (default value): OFF [1]: Add LF at the end [2]: Add CR at the beginning [3]: CR-xx Note With "CR-xx", add LF at the end when CR and add CR at the beginning when LF/FF.				
Default value for user defined paper	_	219 (Short side)	-	[0] to [9999] (default value : 2100) : 0 to 999.9 mm				
size	_	220 (Long side)	Ι	[0] to [9999] (default value : 2970) : 0 to 999.9 mm				
Effective number of outputs	74	221	115	[0] (default value : HP-GL/2) : Protocol specification [1] : Panel [2] (default value : ESC/P, PCL) : Command				
Barcode mode	75	_	_	[0] (default value): Regular mode [1]: Barcode mode Vote Barcode outlines are clearly printed in the barcode mode.				

Items	Item Number		lumber	Specification value	
	ESC	PCL	HP		
Applicable	_	_	169	[0] (default value) : HP750C	
product				[1]: FX4036	
Pen width	width – –			Item Number for No.00 is 800.	
			to 815	[0] to [255] (default value : 3) : 0 to 25.5 mm	
Pen end shape	_	_	850	Item Number for No.00 is 850.	
			to 865	[0] (default value) : Cut	
				•	
				[1] : Round	
				•	
				[2] : Rectangle	
				•	
Pen	_	_	900	Item Number for No.00 is 900.	
connection shape			to 915	[0] (default value) : None	
				[1]: Cross	
				[2], David	
				[2] : Round	
				[3] : Cut	
Pen color	_	_	950	Item Number for No.00 is 950.	
			to 965	[0] to [255] : 0 to 255 (color)	
			703	□ Note ■	
				This setting is valid for color printers.	
Pen intensity			950	Item Number for No.00 is 950.	
			to 965	[0] to [100] : 0 to 100 (intensity)	
			705	□ Note ■	
				This setting is valid for black and white printers.	

Direct Print

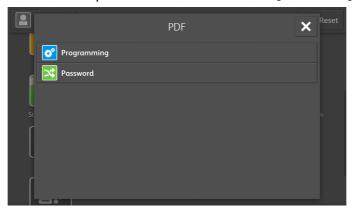
This function is used to print files directly by using lpr commands, etc. instead of a printer driver.

There are two types of PDF direct print, including Adobe genuine PDF direct print and Fuji Xerox Co., Ltd. PDF direct print (PDF Bridge).

- In order to use Adobe genuine PDF direct print, you need the Adobe® PostScript® 3TM kit.
- To use lpr commands, go to [Device] > [Connectivity & Network Setup] > [Port Settings] > [LPD] and specify [Enabled] for [Port Status].

Mode menu screen

This screen is displayed when the direct print mode is selected on the [Print Mode] on the home screen.



□ Note

• You can follow the same procedure for the PDF emulation mode with CentreWare Internet Services.

■ Programming

Enter the Item Number for the function in [Item Number] to display the current setting.

Enter the new value in [New Value] and tap on [Save] to change the setting.

If you are printing a PDF file without using Fuji Xerox Co., Ltd. ContentsBridge Utility, this setting becomes valid.



- If you are printing a PDF file with ContentsBridge Utility, refer to [Support Tools/Manuals] > [Media Information] in "Software/Product Manual DVD".
- If using Contents Bridge Utility, only "Print process mode" will be enabled.

Refer

• Refer to "Items" (p.27) for Item Number.

Password

If you set up a password, you can print PDF files secured with a password.



- The password should be 32 or fewer alphanumerics or symbols.
- Depending on the PDF file security setting, the file may not be printable.

Items

Items	Item	Number	Specification value		
	PDF	DocuWorks			
Number of outputs	401	501	[1] to [999] (default value : 1) : 1 to 999 Note If printing using lpr commands, the specification of the number of		
			outputs is made with lpr commands. Due to this, this setting will be invalid.		
2 sided	402	502	[0] (default value) : None		
			[1] : Long side binding		
			[2] : Short side binding		
Print mode	403	503	[0] (default value) : Standard		
			[1] : High speed		
			[2] : High resolution		
Sort	404	504	Sort multiple copies by copy (1, 2, 3 1, 2, 3).		
			[0] (default value) : None		
			[1] : Yes		
Layout	405	505	[0] (default value) : Auto scale		
☑ Note			[1] : Catalog (bookbinding)		
Setting of			[2] : 2 pages		
this item is enabled			[3] : 4 pages		
only if "PDF			[4]:100 % (scale)		
Bridge" is specified in			☑ Note		
"Print			"Catalog (bookbinding)" is enabled for PDF direct print.		
process mode".			Catalog (bookbinding) print is not valid with some page structures. In this case, it is printed in "Auto scale".		
Paper size	406	506	[0] (default value) : Auto		
			[1] : A4		
Color mode	407	507	[0] (default value) : Auto		
및 Note			[1] : Black and white		
• This setting is valid for color printers.					
Print process	408	_	[0] (default value) : PDF Bridge		
mode			[1]: PS		
₽ Note			№ Note		
This is displayed when			 "Layout" setting becomes invalid if "PS" is specified. 		
Adobe [®] PostScript [®] 3 TM kit is					
equipped.					

Web Applications

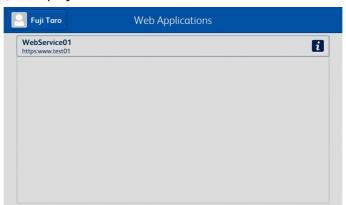
This function allows you to access Web servers via networks from the browser included with this product in order to store or display data.

- Access an external service and display an external service screen
- Store a scanned document in a folder on a Web application
- Print a file stored in an external server



• Web applications that can be displayed are only those which have been linked. You cannot access sites on the internet.

Tap on [Web Applications] to display.



Server Setup

- 1. Log into the device administrator mode.
- 2. Tap on [Device] > [App Settings] > [Web Applications Setup] > [Server Setup].



3. Select the server number to register.

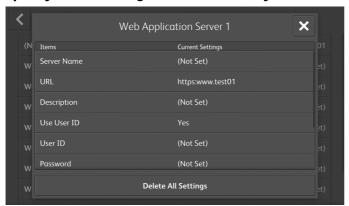


4. Enter the server URL and tap on [OK].

☐ Note

- When connecting by specifying the Web browser version for Web Applications, specify the version between the protocol type (http, https, etc.) and the colon. For example, enter "http-v4://www.example.com" for V4 connection.
- If you connect by specifying URL as the Web browser version, the setting for [Web Applications Version] will be invalid.

5. Specify the following items as necessary.



Server Name

Specify the displayed name for the connection destination.

URL

Server URL is displayed.

Description

Specify the description for the connection destination.

Use User ID

Specify whether or not to use user ID to access external services.

☐ Note

- Even if you specify [No], user ID and password may be required at the time of access.
- If you select [No] in [Device] > [Authentication/Accounting] > [Authentication/Security Settings] > [Authentication] > [Login Type] > [Log In to Remote Accounts], it will access the external service by using the user information authenticated in this product.
- You can specify whether or not to display authentication screen when accessing an external service in [Device] > [App Settings] > [Web Applications Setup] > [Other Settings] > [When Sending User Details].

User ID

Specify the user ID for authentication in external services.



• Depending on the external service, the setting may be invalid even if you specify [User ID]. Check the setting for the used external service.

Password

Specify the password for authentication.

Notify Device/Authentication

You can specify whether or not to notify the information to identify this device and the certificate information of the user to the connection destination every time you connect to an external service.



• Whether or not such information will be used is determined by the connecting external service, so you normally would not perform the setting on the operation panel.

Notify Authorization Info

You can specify whether or not to notify the authorization information of the user to the connection destination every time you connect to an external service.

Functional Code

You can specify this as necessary when using the linked service with another device.

Server Certificate Verification

If the setting is to verify the server certificate when connecting with an external server (ASP) in the same manner as Windows Web browser, you can prevent phishing.

To verify a server certificate, the route certificate (CA certificate) for the route certificate agency issuing the server certificate is used.



- CA certificate files are compatible with the following formats.
 - DER encoded binary X.509 format (.CER)
 - Base64 encoded X.509 format (.CER)
 - Cryptographic Message Syntax Standard PKCS #7 certificate format (.P7B)

Encryption and Signature Function

Certificate

A certificate is required to use the encryption and signature functions.

Creation/deletion of a certificate, import/export, and validation are done with CentreWare Internet Services.

Refer

• Refer to CentreWare Internet Services help for procedures.

Types of certificate

- Self certificate created with CentreWare Internet Services
- Certificate signed by a certificate agency (CA)

Standard for electronic certificate that can be imported

- X.509 (DER/PEM format)
- PKCS#12 (DER/PEM format)
- PKCS#7 (DER/PEM format)

Available device certificate

✓ : Valid, -: Not valid

Encryption and signature function	Self certificate	Certificate generated by another certificate agency
SSL/TLS server	✓	✓
SSL/TLS client	-	✓
IPsec	-	√ *
S/MIME	-	✓
Scanned document	✓	✓

^{* :} Used when [IKE Authentication Method] is [Authenticate by Digital Signature].

■ Terms for valid certificate

√ : Valid, - : Not valid

Encryption and	Key	use	Ex	Email		
signature function	Key encryption	Digital signature	Server authenti- cation	Client authenti- cation	Email protection	address
SSL/TLS server	√	√	✓	-	-	-
SSL/TLS client	√	√	-	✓	-	-
IPsec	-	√	-	-	-	-
S/MIME	√	✓	-	-	√	✓
Scanned document	√	√	-	-	-	-

Encryption and Signature Function

■ SSL/TLS server

SSL/TLS protocol is used to encrypt HTTP communication from client PC to this product.

It is encrypted in SSL even when printing by using IPP protocol.

■ SSL/TLS client

SSL/TLS protocol is used to encrypt HTTP communication from this product to an external server.

Although it is not normally necessary to import a self certificate, you can import a certificate generated by another certificate agency if the external server requires SSL client proof.

To verify an external server, import the certificate of the upper level certificate agency included in the certificate path.

■ IPsec

IPsec protocol is used for encryption.

It is encrypted on the IP level, regardless of the application.

Depending on the status of [Device] > [Connectivity & Network Setup] > [Security Settings] > [IPsec Settings] > [IKE Authentication Method], requirement for IPsec certificate will differ.

- Authenticate by digital signature
 Import a certificate generated by another certificate agency.
- Authenticate by prior shared key Not required.

To verify the communication destination, import the certificate of the upper level certificate agency included in the certificate path.

S/MIME

S/MIME is used to encrypt emails and internet FAX.

S/MIME certificate is required.

Encrypted communication requires the transmission destination individual certificate, device certificate, and this product's device certificate.

[Device] > [App Settings] > [Scan Settings] > [Email Control] > [Split by Data Size] is not available.



- Check that the [Details] tab has the following setting on the [Certificate] screen for the S/MIME individual certificate and device certificate.
 - Email address has been set
 - If the certificate contains V3 extension (KeyUsage) in RSA method "Digital signature" and "key encryption bit" have been set in [Key usage]
 - If the certificate contains V3 extension (KeyUsage) in ECC method "Digital signature" and "key encryption bit" have been set in [Key usage]

■ Scanned document

Scanned documents that allow digital signature are PDF and DocuWorks.

Import a certificate generated by another certificate agency.

Specify encryption in [File Format] when scanning.



Setting Restore Tool

This function is used to backup setting data, etc. in computers connected through networks in case data is lost due to the device's storage malfunction.

For more information, contact your local Fuji Xerox representative.

License

This product contains open source software, for which third parties own the rights (hereinafter referred to as "OSS"). For applicable license, copyright display, and individual license terms for each OSS, please refer to [License] in [Support Tools/Manuals] > [Model-specific Manual] within the attached "Software/Model-specific Manual" disk.

This product contains software consented based on OSS licenses, such as GNU Library General Public License 2.0.

If you wish to obtain the source code for the target software based on the OSS license, you can do so from the site below.

https://www.fujixerox.co.jp/etc/oss/mfp/ap_c7070/v1_0

New Zealand FAX modem statements

General

"The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services"

"This equipment does not fully meet Spark's impedance requirements. Performance limitations may occur when used in conjunction with some parts of the network. Telecom will accept no responsibility should difficulties arise in such circumstances."

"This equipment shall not be set up to make automatic calls to the Telecom '111' Emergency Service."

"If a charge for local calls is unacceptable, the 'Dial' button should NOT be used for local calls. Only the 7-digits of the local number should be dialled from your telephone. DO NOT dial the area code digit or the 'O' prefix."

"This equipment may not provide for the effective hand-over of a call to another equipment connected to the same line."

Important Notice

"Under power failure conditions, this telephone may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use."

"Some parameters required for compliance with Spark's Telepermit requirements are dependent on the equipment (PC) associated with this equipment. The associated equipment shall be set to operate within the following limits for compliance with Telecom's Specification:

There shall be no more than 10 call attempts to the same number within any 30-minute period for any single manual call initiation, and the equipment shall go on-hook for a period of not less than 30 seconds between the end of one attempt and the beginning of the next attempt.

Where automatic calls are made to different numbers, the equipment shall go on-line for a period of not less than 5 seconds between the end of one attempt and the beginning of the next attempt.

The equipment shall be set to ensure that calls are answered between 3 and 30 seconds of receipt of ringing."

"All persons using this device for recording telephone conversations shall comply with New Zealand law. This requires that at least one party to the conversation is to be aware that it is being recorded. In addition, the Principles enumerated in the Privacy Act of 1993 shall be complied with in respect to the nature of the personal information collected, the purpose for its collection, how it is used and what is disclosed to any other party."