

Mapping Infoprint 21/32/40 IPDS Configuration
To
Infoprint 11xx IPDS Configuration

This document serves as a guide for configuring a new IBM Infoprint 11xx printer in situations where it is replacing an existing and properly configured IBM Infoprint 21/32/40.

To use this document:

- 1) Print out the existing 21/32/40 configuration pages and save them for reference.
- 2) Follow the normal Infoprint 11xx installation procedures until the printer configuration steps.
- 3) Use the table below as a mapping guide for configuring the IPDS related parameters on the Infoprint 11xx. The suggested Infoprint 11xx configuration values are horizontally across from and at the same vertical level as the corresponding Infoprint 21/32/40 configuration values. In many cases, there is just one suggested Infoprint 11xx value. In other cases, a choice between several suggested Infoprint 11xx values must be made using guidance from the comments column or from the notes that follow the table.

In some cases, you may need even more information regarding a specific menu item. Please pick from the list of related User's Guides at the end of this document.

Notes:

1. Unless otherwise noted, all menu items can be found under the respective printer's IPDS MENU.
2. The default values for each Infoprint 21/32/40 menu item and for each Infoprint 11xx menu item are shown in **bold**.
3. The Infoprint 21/32/40 printers use TCP/IP port number 2501 or 5001 for IPDS printing. The Infoprint 11xx printers use TCP/IP port number 9100 or 9600.

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
PAGEPROT (Infoprint 32/40 only)	AUTO	Similar Menu Items	EMULATION/Resource Memory	Normal	These menu items adjust the amount of memory used by the IPDS emulation, but they are based on different criteria.
	ON			More	
DEF CD PAG	037	Equal Menu Items, but Different Default Values	EMULATION/Default Codepage	037	
	500			500	
EMULATION	4028	Similar Menu Items, but Different Values	EMULATION/IPDS Emulation	4028	Use 3812/3816 if the Infoprint 21/32/40 has PRINT MODE = ENH and RESOLUTION = 240.
	4322 (Infoprint 21 only)			43xx	
	4332 (Infoprint 32/40 only)				
				3812/3816 (240 DPI)	
				3112/3116	

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
DEF FGID	416	Equal Menu Items	EMULATION/Default FGID/43XX FGID	416	The Infoprint 11xx allows you to pick the Default FGID for the different Emulations.
			EMULATION/Default FGID/4028/31XX FGID		
			EMULATION/Default FGID/3812/3816 FGID	11	
CPI	10.0	Equal Menu Items	EMULATION/Default CPI	10.0	The CPI range for all of the printers is 5.0 to 30.0.
VPA CHK	ON	Similar Menu Items	EMULATION/Exception Control	Report All	The Infoprint 11xx can suppress error reporting for Undefined Characters.
	OFF			Sup Beyond VPA	
				Suppress Both	
				Sup Undef Char	
X-OFFSET	0	Similar Menu Items, but the unit and ranges are different	MARGINS/(paper source)/Left Margin	0	See Note 1 after the table.
Y-OFFSET	0	Similar Menu Items, but the unit and ranges are different	MARGINS/(paper source)/Top Margin	0	See Note 1 after the table.

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
PAGE	WHOLE	Similar Menu Items	EMULATION/Printable Area	4028 Whole Page	
	PRINT			4028 Print Page	
	COMP1			Full Page (not valid on 1145)	These settings are similar, but not equal.
	COMP2				
				Physical Page (edge-to-edge)	Choose this value, if the Infoprint 21/32/40 has PAGE = WHOLE and EDGE-EDGE = ON.
EDGE-EDGE	OFF	Similar Menu Items	EMULATION/Printable Area	4028 Whole Page	None of these values on the Infoprint 11xx are edge-to-edge. Choose either one.
				4028 Print Page	
				Full Page (not valid on 1145)	
	ON			Physical Page (edge-to-edge)	Choose this value, if the Infoprint 21/32/40 has PAGE = WHOLE and EDGE-EDGE = ON.
FONT SUB	OFF	Equal Menu Items, but Different Default Values	EMULATION/Font Ctrl	Strict	
	ON			Relaxed	

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
PRINT MODE	ENH	Similar Menu Items, but Different Values	EMULATION/IPDS Resolution	600 dpi	
				1200 dpi	
				1200 ImageQ	
	STD			300 dpi	
CACHING		Unique Menu Item			The Infoprint 11xx caches commands, but not images.
EARLY COMPL	OFF	Similar Menu Items	EMULATION/Page Counter	Normal Update	See Note 2 after the table.
	ON			Early Update	
IPDS PORT (Infoprint 32/40 only)	COAX TX TRING ETHER	Unique Menu Item			This does not restrict you from using multiple ports. The Infoprint 11xx accepts IPDS jobs from all ports.
OUTPUT (Infoprint 32/40 only)		Somewhat Similar Menu Items	MAP OUTPUT BINS/Map Bin x		Limited function on Infoprint 32/40. The Infoprint 11xx allows you to map multiple IPDS output bin numbers.

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
CUSTOM FORM (Infoprint 32/40 only)		Somewhat Similar Menu Items, but Different Capabilities	PAPER HANDLING/UNIVERSAL SIZE/Paper Length and Paper Width and PAPER HANDLING/OTHER ENV SIZE/Paper Length and Paper Width	Convert one custom form size to 300 dpi and enter it on the Infoprint 11xx.	On the Infoprint 32/40, you can set up to 5 custom form sizes. On the Infoprint 11xx, you can specify only one Universal Size and one Envelope Size.
FONT CAPT (only appears when hard drive is installed)	ON	Similar Menu Items, but Different Default Values	FONT CAPTURE/Capture Fonts (only appears when FLASH or hard drive is installed)	Save to Disk	
	OFF			Disable	
				Save to Flash	
RESOLUTION (used in connection with PRINT MODE)	300 (forced to 300 when PRINT MODE = STD)	Somewhat Similar Menu Items	EMULATION/IPDS Emulation (this menu item controls more than resolution)	4028	See Note 3 after the table.
	600			3112/3116	
	AUTO			43xx	
	240			3812/3816	
GCS (Graphic Character String)	Auto	Unique Menu Item			
	CHAR_SCALE				Infoprint 11xx method.
	FONT_ACT				
BAR CODE	AUTO (use EMULATION value)	Somewhat Similar Menu Items	EMULATION/IPDS Emulation (this menu item controls more than barcodes)		No equivalent value for Auto.
	4028			4028	Barcodes printed in 4028 emulation can be about 10% wider than barcodes printed in 43xx emulation.
	4322 (Infoprint 21 only)			3112/3116	
	4332 (Infoprint 32/40 only)			43xx	

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
BOX DRAW	OFF	Unique Menu Item			The box draw characters in the Infoprint 11xx will by design fill the “connection gaps” left by some raster fonts.
	ON				
AUX ENV TRAY 1 TRAY 2 TRAY 3 (Infoprint 21 only)	Auto	Similar Menu Items	MAP INPUT TRAYS/Tray Mapping x	Use the Infoprint 11xx defaults.	
	0-254			Map the Infoprint 11xx trays the same as the Infoprint 21 trays.	
PAPER MENU/DUPLEX (only appears if the duplex option is installed)	OFF	Similar Menu Item	PAPER HANDLING/Duplex Control	Disable	Enable and Disable allow you to "override" whether the duplexer is reported to the host or not.
	ON			Autodetect	
				Enable	
PAPER MENU/BLANK PG	PRINT	Equal Menu Items	PAPER HANDLING/IPDS Blank Pages	Print	
	NO PRT			Do Not Print	

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
		Unique Menu Item	EMULATION/Font Type	Use Scalable Use Bitmap	Select printer resident bitmap fonts or printer resident scalable fonts for Courier, Prestige and Letter Gothic fonts.
		Unique Menu Item	EMULATION/Intervention Req	Report Do Not Report	This allows you to control whether printer interventions are reported to the host or not.
		Unique Menu Item	EMULATION/IPDS Timeout	Host Controlled 15 seconds 30 seconds 60 seconds 90 seconds 2 minutes 3 minutes 5 minutes 10 minutes	This value is used with TCP/IP port 9100. This value is used with TCP/IP port 9600. “15 seconds” is recommended. This allows the printer to go Ready even when the host thinks it has a “dedicated connection” to the printer.
		Unique Menu Item	EMULATION/Codepage Version		Ignore.
		Unique Menu Item	EMULATION/Print IPDS Fonts		Print font samples. IPDS Emulation dependent.

Infoprint 21/32/40 Menu Item	Infoprint 21/32/40 Value(s)	“Strength” of Mapping	Infoprint 11xx Menu Item	Infoprint 11xx Value(s)	Comment
		Unique Menu Item	EMULATION/Trace Functions		Leave it Disabled. Used by Service Personnel.
		Unique Menu Item	EMULATION/IPDS Version		Quick way to check the IPDS code version.
		Unique Menu Item	EMULATION/PAPER HANDLING/Staple Control	Host Controlled Off	See Note 5 after the table.
		Unique Menu Item	EMULATION/PAPER HANDLING/Offset Stack	Host Controlled Off	See Note 6 after the table.

Notes:

1. The unit for the Infoprint 21/32/40 is in 1/600ths of an inch and the range is -999 to 999 (-1.665 inch to +1.665 inch). The unit for the Infoprint 11xx is in 1/300ths of an inch and the range is -127 to 127 (-0.423 inch to +0.423 inch).

The Infoprint 11xx allows you to specify this offset for each paper source and for the front side and back side of duplexed pages.

For all printers, the physical point of origin is the upper left corner of a portrait page. If you rotate the page on an Infoprint 21/32/40, the physical point of origin rotates as well.

However, for the Infoprint 11xx, this origin does not rotate.

2. On the Infoprint 21/32/40, EARLY COMPL only applies to the Twinax interface. When using the Coax interface on these printers, look under the Coax Setup Menu for EARLY COMPL. There is no EARLY COMPL for LAN attachment.

On the Infoprint 11xx printers, the Page Counter menu item controls early print complete (Early Update). This menu item applies to Twinax, Coax and LAN attachments.

3. For the Infoprint 21/32/40, this menu item applies to resources downloaded for IM1 image and for raster fonts. For these printers, the resolution is independent of the emulation. Furthermore, to specify an IPDS resolution of 240, 600 or Auto on the Infoprint 21/32/40, PRINT MODE = ENH must be set.

For the Infoprint 11xx, the resolution (dpi) reported to the host is based on the IPDS Emulation— 4028 (300), 3112/3116 (300), 43xx (300) and 3812/3816 (240). Thus, the downloaded resource resolution is based on the IPDS Emulation, too. The Infoprint 11xx does not support Auto resolution. This may affect your printing results.

The “IPDS working resolution” is the value of EMULATION/IPDS Resolution. The QUALITY MENU/Print Resolution menu item does not affect IPDS printing.

4. Cancel Processing - Infoprint 21/32/40 printers are able to cancel printing almost immediately, while Infoprint 11xx printers print the "buffered data" first. There could be tens of pages buffered in these printers.
5. This menu item only appears when the optional finisher is installed.

The Infoprint 32/40 do not allow you to control stapling from the operator panel.

6. This menu item only appears when the printer supports offset stacking. The Infoprint 1130/1140 support offset stacking when the optional finisher is installed. The Infoprint 1145 supports offset stacking in the printer standard bin and in bin 2 of the optional finisher.

The Infoprint 21/32/40 do not allow you to control offset stacking from the operator panel.

IPDS Configuration Reference Documents:

1. Using Your IBM Infoprint 21. G544-5701
2. Infoprint 32, Infoprint 40 User's Guide. S544-5484
3. Infoprint 1120, 1125, 1130, 1140 and 1145 Card for IPDS and SCS/TNe, IPDS Emulation User's Guide. S510-2156