

# **IBM 4247 IPDS Quick Reference**





Anerkennungen

PrintGuide<sup>™</sup> and EasyCom<sup>®</sup> 5 are Trademarks and Registered Products of MPI Tech A/S EPSON is a Trademark of Seiko Epson Corporation.

IBM is a Trademark of International Business Machines Corporation. Proprinter is a Trademark of International Business Machines Corporation.

Eine Publikation von PSi Matrix GmbH Hommeswiese 116a D – 57258 Freudenberg Federal Republic of Germany

Februar 2021

#### http://www.psi-matrix.eu

Care has been taken to ensure that the information in this manual is correct and complete. However, if errors or omissions are discovered, or if a user has suggestions for improving this manual, please feel encouraged to provide us with the appropriate information.

The content of this manual can be changed by PSi Matrix without prior notice. Copyright © 2021 Psi Matrix GmbH and MPI Tech A / S.

All rights reserved. Duplication or reproduction to third parties in any form is not permitted without the written consent of the publisher.

### Inhalt

1.0 EASYCOM 5 CONNECT TO THE PRINTER	4
1.1 CONNECT POWER SUPPLY	4
1.2 ETHERNET CONNECTION TO THE HOST	5
1.3 CONNECT PRINTER	5
1.3.1 USB CONNECTION (PP 40X)	5
1.3.1 ETHERNET TO ETHERNET CONNECTION	6
2.0 CONFIGURE THE PRINT SERVER USING THE PRINTGUIDE™	6
2.1 PRINTGUIDE™	6
2.1.1 INSTALLATION OF PRINTGUIDE™	6
2.1.2 START PRINTGUIDE™	6
2.2 CONFIGURATION OF THE OUTPUT PORT TO THE PRINTER	7
2.3 IF PRINTGUIDE ™ CANNOT DETECT A PRINT SERVER	8
2.4 NETWORK SETTINGS EASYCOM 5	9
2.5 SAVING A CONFIGURATION IN THE PRINT SERVER	10
2.6 CONFIGURING THE PRINT SERVER WITH PRINTGUIDE ™	10
2.6.1 CONFIGURING A LOGICAL PRINTER	11
2.6.2 STRING CHANGE (CHARACTER REPLACEMENT)	13
2.7 SAVING A CONFIGURATION (BACKUP CONFIGURATION)	14
2.8 EDITING A CONFIGURATION FILE	15
2.8.1 EXAMPLE: CREATING A PAPER SOURCE FOR THE IPDS INTERFACE	16
2.9 LOAD A SAVED CONFIGURATION FILE	17
3.0 CONFIGURE THE PRINT SERVER VIA WEB BROWSER	18
3.1 CONFIGURE PRINT SERVER "ADVANCED CONFIGURATION"	18
3.1.1 GENEREL SETTINGS	18
3.1.3 CONFIGURATION OF A LOGICAL PRINTER VIA WEB	20
3.1.4 TCP/IP	23
3.1.5 PASSWORD	25
3.2 STATUS	26

# **1.0 EASYCOM 5 CONNECT TO THE PRINTER**

### **1.1 CONNECT POWER SUPPLY**

• Select the appropriate plug variant (1) and slide it onto the plug-in power supply (2) until it engages.



• Connect USB A plug (1) with power supply unit (2) and USB Micro (3) with EasxCom 5 (4)



### **1.2 ETHERNET CONNECTION TO THE HOST**

• Ethernetkabel (1) auf LAN - Buchse (2) verbinden



There are 3 different ways to connect the EasyCom adapter to the printer.

- 1. USB USB
- 2. Ethernet Ethernet
- 3. USB parallel (only on request)

### 1.3.1 USB CONNECTION (PP 40X)

- Connect the EasyCom 5 adapter via a USB cable. Connect USB (B) -> USB (A) to the printer
- Select the USB port in the installation menu / interface of the printer



Note: Printers of the PP 80x family do not have a USB interface

### **1.3.1 ETHERNET TO ETHERNET CONNECTION**

- Connect the EasyCom 5 adapter to the printer using the RJ45 cable (1) -> (2)
- Select the Ethernet port in the installation menu / interface of the printer and configure it



# 2.0 CONFIGURE THE PRINT SERVER USING THE PRINTGUIDE™

### 2.1 PRINTGUIDE™

PrintGuide <sup>™</sup> monitors and configures the MPI IPDS interface (EASYCOM 5). PrintGuide <sup>™</sup> is your interface to the PSI IPDS print server.

Functions:

- Configuration tool Configures and administrates the PSI IPDS interface
- Status Monitor For monitoring the print server during operation.
- Maintenance Tool for update the firmware.

### 2.1.1 INSTALLATION OF PRINTGUIDE™

Install PrintGuide from the product CD or download it from the MPI website at this link: <u>https://www.mpitech.com/support/software-downloads</u>

### 2.1.2 START PRINTGUIDE™

To start, click on the "Icon"

Print(Vide

Pr	rintGuide - [EasyC	Com 5]									- [	$\square$ ×
File	Search Monitor	r PrintServer O	ptions	Actions Help	0							
D	🖻 🕶 🗔	🍾 🔂 🕹	5 <b></b>	♥ 開	?	🖉 🧕		~	<pre>s</pre>			
) etecte	ed PrintServers:										Visi	ble/Total: 1/1
	Name						Address	MAC Address	Version	Config	Status	
٠	EasyCom 5						192.168.210.70	985dad41a374	654.090	Yes	Ready	
A	Description TCP/IP transpare	nt port								ID Stat	us dv	
	Description TCP/IP transpare AFP/IPDS using T	nt port FCP/IP						1	PrintServer Int	ID Stat 10 Rea	us dy	×
	Description TCP/IP transpare AFP/IPDS using T SCS using TN327 DCA using TN528	nt port ICP/IP 70e 50e						1	PrintServer Inf	ID Stat 10 Rea To Viewer	us dy	Ge
	Description TCP/IP transpare AFP/IPDS using T SCS using TN327 DCA using TN525 AFP/ICDS using T	nt port TCP/IP 70e 50e TCP/IP						F	PrintServer Inf	ID Stat 10 Rea to Viewer EasyCom	us dy 5	× General
	Description TCP/IP transpare AFP/IPDS using T SCS using TN327 DCA using TN327 AFP/ICDS using T	nt port TCP/IP 70e 50e TCP/IP						1	PrintServer Inf Name: Product Name:	ID Stat 10 Rea to Viewer EasyCom EasyCom	us dy 5 5	General Ca
	Description TCP/IP transpare AFP/IPDS using T SCS using TN321 DCA using TN525 AFP/ICDS using T	nt port ICP/IP 70e 50e ICP/IP							PrintServer Inf Name: Product Name: Version:	ID Stat 10 Rea to Viewer EasyCom 654.090	us dy 5 5	
	Description TCP/IP transpare AFP/IPDS using T SCS using TN321 DCA using TN325 AFP/ICDS using T	nt port ICP/IP 70e 50e ICP/IP							PrintServer Inf Name: Product Name: Version: Active Address	ID Stat 10 Rea io Viewer EasyCom 654.090 : 192.168.2	us dy 5 5 210.70	
	Description TCP/IP transpare AFP/IPDS using T SCS using TN321 DCA using TN525 AFP/ICDS using T	nt port rCP/IP 70e 50e rCP/IP							PrintServer Int Name: Product Name: Version: Active Address Addresses:	D Stat 10 Rea 6 Viewer EasyCom 654.090 192.168.2 9854ad4	us dy 5 5 210.70 210.70 210.70 1a374	General Capabilities Aut
	Description TCP/IP transpare AFP/IPDS using T SCS using TN322 DCA using TN525 AFP/ICDS using T	nt port rCP/IP 70e 50e rCP/IP							PrintServer Int Name: Product Name: Version: Active Addresses:	ID         Statt           10         Rea           io         Viewer           EasyCom         EasyCom           654.030         192.168.2           192.168.2         985dad4	us dy 5 210.70 210.70 1a374	Ceneral Capabilities Authoriz
	Description TCP/IP transpare AFP/IPDS using T SCS using TN322 DCA using TN525 AFP/ICDS using T	nt port rCP/IP 70e 50e rCP/IP							PrintServer Int Name: Product Name: Version: Active Addresses:	ID         Statt           10         Rea           to         Viewer           EasyCom         EasyCom           654.090         192.168.2           192.168.3         985dad4	us dy 5 210.70 210.70 1a374	Ceneral Capabilities Authorization
	Description TCP/IP transpare AFP/IPDS using T SCS using TN322 DCA using TN525 AFP/ICDS using T	nt port rCP/IP 70e 50e rCP/IP							PrintServer Inf Name: Product Name: Version: Active Address Addresses:	ID         Statt           10         Rea           io         Viewer           EasyCom         654.090           :         192.168.2           :985dad4*         192.468.2	us dy 5 5 210.70 210.70 1a374	General Capabilities Authorization

The initial screen monitor view, shows an overview of the currently available print servers and the status of the selected print server and the "logical printers".

**Note:** Lists in monitor view, can be sorted by clicking on a column heading. Click on "Configured" to display the unconfigured print servers (new ones) at the top of the list. Click on "Address" to sort print servers according to their address (MAC or IP). The list of logical printers shows the respective status. If you want to change settings, you have to switch the configuration view to the single view by double-clicking one of the print servers.

### **2.2 CONFIGURATION OF THE OUTPUT PORT TO THE PRINTER**

Double click on one of the logical printers e.g. AFP / IPDS using TCP / IP

PrintGuide - [EasyCom 5]		— — X
File Search Monitor PrintServer Co	nf 🏙 Configuration of [AFP/IPDS using TCP/IP]	×
Image: Second Sectors         Print Server Name:         EasyCol	General Settings: Description: AFP/IPDS using TCP/IP Enabled	User Licensing
Contact Person: PrintServer Location:	PPD IPDS Physical Printer Strings Output Driver	Sharinge
Network Setting: TCP/IP '3' IPX/SPX '3' SNMP '3' NetBEUI '3'	- TCP/IP Bort. 5001	Settings are shared with following logical printers: (None)
Logical Printers:		
Description		
TCP/IP transparent port		
AFP/IPUS using TCP/IP     SCS using TN3270e     DCA using TN3250e     AFP/ICDS using TCP/IP		
	1	0
ready		OK Cancel Help

• Select "Output Driver" here you select whether you want to output via Ethernet or USB.

PPD	IPDS	Physical Printer	Strings	Ou	tput Driver	
USB TCP USB	Driver /IP Netw Driver	ork Port Driver		~	ver	

• No additional settings are necessary for the USB driver

PPD IPDS	Physical Printer	Strings	Output Driver	
USB Driver There are n	o settings to config	jure on th	✓ is driver	

 With TCP / IP Network Port Driver, the IP address of the printer and the port (9100 standard) must be specified

PPD IPDS Physical Printer Strings Output Driver	
TCP/IP Network Port Driver	
IP <u>A</u> ddress: 192.168.210.87 <u>I</u> CP/IP Port: - PrintGuide does not recognize this port driver.	9100

### 2.3 IF PRINTGUIDE <sup>™</sup> CANNOT DETECT A PRINT SERVER

If the PrintGuide <sup>™</sup> cannot discover a print server and the print server is otherwise running or switched on, settings may need to be changed.

- In the Options menu, click on "Prefernces".
- Click the Network tab.
- Activate the corresponding protocol (DLC and / or TCP / IP protocol)
- Edit the appropriate protocol settings that are required.

references	×
General Time Control Network Monitor Filters	
TCP/IP Settings:	DLC Settings:
Use TCP/IP protocol	Use DLC protocol
Discover Subnets: ✓ 255.255.255.255 ✓ 255.255.255.0 Modify Remove	Adaptor: 🗸
Discover on All     Discover on Selected only	Test Adaptor
Monitor Files: C:\Program Files (x86)\MPI Tech\PrintGuide\Devic	es.* Browse
Restore Defaults	OK Cancel Help

Note: The DLC protocol is supported under Windows 2000 and older versions.

### 2.4 NETWORK SETTINGS EASYCOM 5

Open the "Network Settings" dialog box by right-clicki mouse on the highlighted print server under the "Configuration" menu item.

🙀 Pri	intGuide - [EasyCom 5]	he Ac				_		×
File S	Search Monitor PrintServer	Configuration Options Action	Help					
Genera Network	Contact Person: PrintServer Name: Eac Contact Person: PrintServer Location: COCP/IP COCP/IP COMPANY CONVPC CO	Network Settings       Logical Printer Enabled       Edit Logical Printer       Log Settings       Copy Configuration to       PU/LU       AppleTalk	Pe: EasyCom 5 192.168.210.70				Network	
Logical	Printers:						Cou	int 5
	Description			Input	Transfo	Output		D
<b>A</b>	TCP/IP transparent port			TCP/IP [9100]		Printer 1		10
l 🚔	AFP/IPDS using TCP/IP			PPD [5001]	IPDS	Printer 1		20
	SCS using TN3270e			Telnet	SCS	Printer 1		30
	DCA using TN5250e			Telnet	DCA	Printer 1		40
	AFFIGUS USING TOPHP			9005J	100	Printer 1		50
							Edit	
Ready		Edit network settings (hard	lware based PrintServers only)					

If DHCP is switched on, you will automatically see the network settings of the print server. If not the network communication data in the appropriate fields.

Network Settings	×
Network protocols:     TCP/IP     PU/LU     AppleTalk     IPX/SPX     NetBEUI	4 4 4 4 4
TCP/IP SNMP MAC	
IP Address: Subnet Mask: Gateway: Automatically obtain IP address and related information u DHCP BOOTP RARP Auto-IP	192.168.210.70 255.255.255.0 192.168.210.3 using:
Web Interface So Port: 80	ettings (HTTP): Login Timeout: 600
0K Cancel	Help

### **2.5 SAVING A CONFIGURATION IN THE PRINT SERVER**

To save the configuration, open the "Configuration" dialog box and right-click the mouse to save the configuration of the selected print server.

	1				-	
File Search Monitor Pri	intServer Configuration Options	Actions Help				
🗅 📽 🕶 🖬 🔤	Open in Web Browser Ctrl+W	0 3 4	~ 10			
General Settings:	Assign IP Address Ctrl+Alt+A					
Print Serve	View Configuration	ent Name: EasyCom 5				
Contact Pe 📢	Save Configuration Ctrl+Alt+S	ess: 192.168.210.70				
PrintServe	Backup Configuration					
etwork Settings:	Update Configuration					
SIMP TOP/IP	Update Firmware	-				Network
ogical Printers:	Restore Factory Defaults					Count
Description	Restart PrintServer Ctrl+R		Input	Transfo	Output	ID
TCP/IP transparent	Change Partword	-	TCP/IP [9100]		Printer 1	10
AFP/IPDS using TC	Change Password		PPD [5001]	IPDS	Printer 1	20
SCS using TN3270e			Telnet	SCS	Printer 1	30
DCA using TN5250e			Telnet	DCA	Printer 1	40
		Confirm		×		
eady	Commands related	Download configuration	to PrintServer:			Edit
eady	Commands related	Download configuration	to PrintServer:	-		Edit
eady	Commands related	Name: EasyCom 5 Address: 192 168 210 70	to PrintServer:	F		Edit
eady	Commands related	Name: EasyCom 5 Address: 132.168.210.70	i to PrintServer:		_	Edit
eady	Commands related	Name: EasyCom 5 Address: 192.168.210.70 Type: EasyCom 5 Version: 654.090	to PrintServer:			Edit
leady	Commands related	Ito s       Download configuration         Name:       EasyCom 5         Address:       192.168.210.70         Type:       EasyCom 5         Version:       654.090         Restart PrintServer after down	i to PrintServer:			Edit

### 2.6 CONFIGURING THE PRINT SERVER WITH PRINTGUIDE ™

After the installation, parameters for the logical printer may have to be defined.

 right-click to select "Edit Configuration" in the menu. A list of the protocols available for this print server appears.

Ma Pr ile	intGuide - [EasyCo Search Monitor	om P	ة] rintServer Options Actions Help				- 0	1 >
	🗳 🕶 🗔 🛛	8	🔁 👪 V ؇ M 🕴 😗 🐵 🤜	<ul> <li>Image: A start of the start of</li></ul>				
etecte	d PrintServers:					1	Visibl	le/Total:
	Name			Address MA	AC Address Version	Config	Status	
•	EasyCom 5		Open in Web Browser	192.168.210.70 98	5dad41a374 654.090	Yes	Ready	
			Refresh Selected F2					
igical	Printers:	3	Refresh All F5					Activ
	Description	•	DISCOVER			ID Statu	us	
1	TCP/IP transpa 🎽	-	Edi Configuration			10 Read	dy	
	AFP/IPDS using	¢	View Configuration			20 Read	dy	
1 1	SCS using TN3		Backup Configuration			30 Read	dy	
3	AFP/ICDS using		Generate Trace Log			40 Read	ay tu	
	R	จา					-,	
	9	Ϋ.	help					
			Show Info Viewer					
ady			Edit selected PrintServer's Configuration					
	Description			Input	Transform	Outr	put	
		CP/IF	1	PPD [5001]	IPDS	Print	ter 1	
<b>.</b>	AFP/IPDS using 10		1	PPD [5005]	PSS	Print	ter 1	
	AFP/IPDS using TO AFP/ICDS using TO	CP/I						
	AFP/IPDS using TO AFP/ICDS using TO TCP/IP transparen	CP/IL It po	t	TCP/IP [9100]		Print	ter 1	
สาสาสา	AFP/IPDS using TI AFP/ICDS using TI TCP/IP transparen SCS using TN3270	CP/II nt po '0e	t	TCP/IP [9100] Telnet	SCS	Print Print	ter 1 ter 1	

### **2.6.1 CONFIGURING A LOGICAL PRINTER**

 Select a logical printer from the description list "Description" with the mouse (double click) from "AFP / IPDS using TCP / IP"

	Description		Input	Transform	Output	D
<b>B</b>	AFP/IPDS using TCP/IP	Ν	PPD [5001]	IPDS	Printer 1	20
e,	AFP/ICDS using TCP/IP	13	PPD [5005]	PSS	Printer 1	50
e,	TCP/IP transparent port		TCP/IP [9100]		Printer 1	10
P,	SCS using TN3270e		Telnet	SCS	Printer 1	30
e,	DCA using TN5250e		Telnet	DCA	Printer 1	40

• Adjust the settings to meet your requirements. Check the Enabled box to enable the printer.

Configuration of [AFP/IPDS using TCP/IP]		×
General Settings: <u>D</u> escription: <u>AFP/IPDS using TCP/IP</u> Enabled		User Licensing
PPD IPDS Physical Printer Strings Output Driver	Ş	
PPD Settings: TCP/IP <u>P</u> ort:	5001	Sharings: Settings are shared with following logical printers: (None)

• Click the IPDS tab and adjust the settings accordingly. Important for the IBM 4247 installation are:

#### ✦LANGUAGE MATRIX

#### ►MATRIX TYPE EPSON LQ

#### ✦EMULATION 4247

Configuration of [AFP/IPDS using	TCP/IP]	×
General Settings: <u>D</u> escription: <u>AFP/IPDS using TCP/IP</u>		
🗹 Enabled		User Licensing
PPD IPDS Physical Printer Strings	Output Driver	
IPDS Settings: Language: Matrix ✓ Matrix Type: Epson LQ ✓ Full Color ✓ Auto Configure Tray Mapping: AFP Tray Printer Tray 1 Tractor 1 2 Tractor 2	Code Page:       500         Emulation:       IBM 4247         Print Offsets:       Front:         Back:         Horizontal:       0         Vertical:       0         End to End Control         Edge to Edge Support         Report Margins to System         VPA Check:       Physical Page	Sharings: Settings are shared with following logical printers: (None)
		OK Cancel Help

• Click the Physical Printer tab and enter the description and printer name - this is optional.

General Settings:	
Description: AFP/IPDS using TCP/IP	
Enabled	User Licensing
PPD IPDS Physical Printer Strings Output Driver	
Physical Printer Settings General Traus/Bins	Sharings: Settings are shared with
	following logical printers:
	TCP/IP transparent port
Description: PSi PP 803 M2 OG	SCS using TN3270e
Printer Name: PP803_01	LA using TN5250e
Printer Memory:	
Color Installed	
Duplex	
Offset Stacker	
	OK Cancel Help

• Click on the "Trays / Bins" to assign the paper sizes of the paper trays 160 x 12 to 160 characters and 12 inch paper length.

Configuration of [AFP/IPDS using TCP/IP]			Ν			>
ieneral Settings: <u>D</u> escription: AFP/IPDS using TCP/IP			43			
🗹 Enabled						User Licensing
PD IPDS Physical Printer Strings Output Driv	er					
Physical Printer Settings General Trays/Bins				🗌 Auto Con	figure	Sharings: Settings are shared with following logical printers:
Description	Installed	Manual Feed	Envelope	Paper		TCP/IP transparent port SCS using TN3270e
Tractor 1	Yes	No	No	132x12		AFP/ICDS using TCP/IP
Tractor 2	Yes	No	No	80x12	-	Art According for Ar
L						

### **2.6.2 STRING CHANGE (CHARACTER REPLACEMENT)**

Im Falle einer notwendigen Zeichenfolge-Ersetzung oder nötiger Start/Stop Sequenzen können diese unter der Registerkarte "Strings" eingetragen werden.

Configuration of [AFP/IPDS using TCP/IP]		×
General Settings: Description: AFP/IPDS using TCP/IP C Enabled	μζ.	User Licensing
PPD       IPDS       Physical Printer       Strings       Output Driver         Pre String Settings: <ul> <li>Pad from file</li> <li>Text</li> <li>Used: 0/250</li> <li>Replace String Settings:</li> <li>Read from file</li> <li>Text</li> <li>Used: 0/250</li> <li>Replace this</li> <li>Used: 0/250</li> <li>Used: 0/250</li> <li>Replace this</li> <li>Used: 0/250</li> <li>Used: 0/250</li> <li>Used: 0/250</li> <li>Output Driver</li> <li>Output Dri</li></ul>	With this	Sharings: Settings are shared with following logical printers: TCP/IP transparent port SCS using TN3270e DCA using TN5250e AFP/ICDS using TCP/IP
	OK	Cancel Help

**Pre-Strings** = Startup sequences are sent at the beginning of a print job. This can be, for example, tray controls, macro selection or page formats.

**Post-Strings** = End-of-job sequences are sent at the end of a print job. These can be, for example, reset, cutting commands or macro reset commands.

**Replace String** = Exchange sequences are sent while a print job is being processed. Individual characters, commands or entire character strings can be exchanged.

Example: replace characters

■=(0xCF) in Code Page 850 with the € (= 0xd5) character from Code Page 858

Replace this 0xCF With this 0x1B0x5B6;063w0xd50x1B0x5B2;063w

Info (Command explanation): character 0xCF = IBM Code Page 850 = ■ character 0xd5 = IBM Code Page 858 = € Code Page 0x1B0x5B6;063w = Select Code Page 858 Code Page 0x1B0x5B2;063w = Select Code Page 850

)63w0xd5

### 2.7 SAVING A CONFIGURATION (BACKUP CONFIGURATION)

Select the appropriate print server in the monitor view. Right-click and select "Backup Configuration" from the dialog. Save the file in a folder. A backup configuration file must always have the file extension ".upd" and save this.

Sta Pr	intGuide - [EasyCor	m 5]	tions Astions Hale							-		×
		PIII	Open in Web Browser Ctrl+W	00	\$	~ 📢						
Detectr	Name EasyCom 5	보 사 사	Assign IP Address Ctrl+Alt+A Edit Configuration Ctrl+Alt+O View Configuration Save Configuration Ctrl+Alt+S	-		Address 192.168.210.70	MAC Address 985dad41a374	Version 654.090	Con Yes	ifig Stati Rea	Visbe/T us dy	otal: 1/1
	Description TCP/IP transparent AFP/IPDS using TC SCS using TN3270 DCA using TN5250 AFP/ICDS using TC		Backup Configuration Update Coffiguration Update Firmware Restore Factory Defaults Restart PrintServer Ctrl+R Change Password						ID 10 20 30 40 50	Status Ready Ready Ready Ready Ready		Active: 5
Ready			Backup selected Pri	intServer's configuration t	o file							

• enter a file name.

M Speichern unter								×
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\uparrow$	> Die	ser PC → System (C:) → P	rogramme (x86) 🔸 MPI Tech	n > PrintGuide >	v õ	"PrintGuide" duro	hsuchen	م
Organisieren 🔻	Neuer	Ordner						?
🛄 Dieser PC	^	Name	^	Änderungsdatum	Тур	Größe		
3D-Objekte		Printer Descriptions		01.03.2021 08:53	Dateiordner			
E Bilder								
Desktop								
A Dokumente	~							
Dateiname:	PP803	_001.upd						~
Dateityp:	PrintSe	erver Configuration File (*.cf	2;*.upd)					~
∧ Ordner ausblende	n					Speichern	Abbreche	:n

• secure the configuration file with "ok".



### **2.8 EDITING A CONFIGURATION FILE**

Printer-specific settings can be changed or made in the configuration file.

To do this, open a previously saved configuration file (\* .upd) in an editor (\*.upd)

```
;
;<PS-INFO>
; PS-NAME: EasyCom 5
PS-ADDR: 192.168.210.70
; PS-MAC: 985dad41a374
PS-VERS: 654.090
 PS-TYPE: 91 (EasyCom 5)
;
;<PSETUP-INFO>
; VERS: 5
 USER: U.Panthel
TIME: 05.03.2021 09:42:07
;
BEGIN CONFIGURATION
                    TNX 2
     HOSTIPNAME ""
     HOSTPORT
               23
     DEVICENAME ""
     TNX_TYPE
              TN5250E
     MSGQ "QSYSOPR"
     MSGQLIB
              "*LIBL"
END
BEGIN CONFIGURATION
                    TESTPG
                              2
     INSTREAM_TESTPG
                    BASE2
END
BEGIN CONFIGURATION
                    PPD
                         2
     PPD PORT
               5005
     RESPONSE
               20
     KEEPALIVE
               60
     INSTREAM_PPD
                    ICDS
END
BEGIN_CONFIGURATION
                    PPD
                         1
     PPD PORT
               5001
     RESPONSE
               20
     KEEPALIVE
               60
     INSTREAM PPD
                    IPDS
END
usw.
```

### **2.8.1 EXAMPLE: CREATING A PAPER SOURCE FOR THE IPDS INTERFACE**

The paper feeds can be defined in the configuration file. For this purpose, the configuration file for the current IPDS printer must be read out and saved.

• Look for the entry "BEGIN\_CONFIGURATION PRINTER 1" in the configuration file.

The entry LANGUAGE\_DEF MATRIX describes the definition of the paper paths. The control command for the paper path (Tray DEF) can be entered here. The syntax is Hex "0x" followed by a HEX code or directly an ASCII character.

For PSi dot matrix printers, the commands are as followsUnterer Traktor PP 407 / 8 and Traktor PP 404/5= "0x1B0x5B0x370x73" (1b 5b 7 s)Oberer Traktor PP 407 / 8= "0x1B0x5B0x360x73" (1b 5b 6 s)

 Change the following to LANGUAGE\_DEF MATRIX PRESENT YES TRAY\_DEF 1 SELECTION "0x1B0x5B0x370x73" END\_SET TRAY\_DEF 2 SELECTION "0x1B0x5B0x360x73" END\_SET

🖀 PP803_001.upd* - WinVi		
Datei Bearbeiten Suchen Option	en Fenster Hilfe	
	A 🛤 🔝 🗱 🗱	<b>16 18</b>
TRAY_DEF	2	
Pi	APERSOURCE 2	
END_SET		
END_SET		
LANGUAGE_DEF P	DSTSCRIPT	
PRESENT N	) 	
TRAY_DEF	1	
Pi	APERSOURCE 1	
END_SET		
TRAY_DEF	2	
P	APERSOURCE 2	
END_SET		
LND_SEI		
LANGUAGE DEF FL	AIRIA	
TDAY DEF	.5	
IKAI_DEr	TECTION CONTROL	vEB0v270v72
END SET	Checilon Oxide	ASDOAS TOATS
TRAV DEF	2	
INAT_DET	LECTION "Ovie	x5B0x360x73"
END SET	ULICITOR OXID	ACDONO CON / C
CODEPAGE	)EF 850	
	ESENT YES	
S	LECTION ""	

• Save the change in the configuration file

### **2.9 LOAD A SAVED CONFIGURATION FILE**

Select the appropriate print server in the monitor view. Right-click and select "Update Configuration" from the "PrintsERVER2" dialog. Load the file from a folder. A backup configuration file must always have the file extension ".upd" and save this in the selected print server confirmation in the context menu "Confirm" with ok.

ne .			Open in Web Browser Ctrl+W			
) etecte	d PrintServers:		Assign IP Address Ctrl+Alt+A			
	Name	at	Edit Configuration Ctrl+Alt+O	Address MAC Address Version	Con	ifig Status
٠	EasyCom 5	4	View Configuration	192.168.210.70 985dad41a374 654.090	Yes	Ready
		÷	Save Configuration Ctrl+Alt+S			
			Backup Configuration			
ogical.	Printers:		Update Configuration			
<u>1</u>	Description TCP/IP transparent		Update Firmware		10	Ready
e,	AFP/IPDS using TC		Restore Factory Defaults		20	Ready
8	SCS using TN3270		Restart PrintServer Ctrl+R		30	Ready
	DCA using TN5250 AER/CDS using TC		Change Password		40 50	Ready
-	Arricob dalig re	-	enanger assivorant			nousy

• enter a file name.

🙀 Öffnen			×
← → · · ↑ 📙 > Dieser PC > System (C:) > Programme	(x86) > MPI Tech > PrintGuide	✓ Č "PrintGuide" dur	chsuchen 🔎
Organisieren 👻 Neuer Ordner		E	= • 🔳 🔞
Desktop	Name	Änderungsdatum	Тур
🚰 Dokumente	Printer Descriptions	01.03.2021 08:53	Dateiordner
🖶 Downloads	PP803_001.upd	05.03.2021 09:42	UPD-Datei
👌 Musik			
Videos			
🏪 System (C:)	~		
- HP TOOLS (D:)	v <		>
Dateiname: PP803_001.upd		<ul> <li>PrintServer Con</li> </ul>	figuration File († 🗸
		Öffnen	Abbrechen

• Load the configuration file into the print server with "ok".

Confirm		×
?	Download configuration file 'PP803_001.upd' to PrintServer:	
Name: Address: Type: Version: Password ☑ Resta	EasyCom 5 192.168.210.70 EasyCom 5 654.090 d (if any): rt PrintServer after download	
	OK Cancel Help	
Informati	on	×
	The Configuration has been downloaded, and has been accepted by the PrintServer.	
	ОК	

## **3.0 CONFIGURE THE PRINT SERVER VIA WEB BROWSER**

Öffnen Sie den Druckserver in einem WEB-Browser durch Eingabe der IP-Adresse.

• Getting Started



- 1. Config "Advanced Configuration"
- 2. Call up "print server status"

### **3.1 CONFIGURE PRINT SERVER "ADVANCED CONFIGURATION"**

EasyCom 5					
PrintServer	Administr	ation 🕜			
Note: Configuration m a <b>Restart PrintServe</b> • General • Logical Printers	er • TCP/IP • Password	activated by			
Logout of     PrintServer	Restart     PrintServer	Restore     Factory Default     Configuration			

### **3.1.1 GENEREL SETTINGS**

If necessary, personalize the print server name, location and contact person and save them.

General	Settings
To record chang Identifica	ges, click <b>Save &amp; Continue</b> at the <b>bottom</b> of the page. tion ?
PrintServer Name	PP803_VT1
Location	Vertrieb 2.0G
Contact Person	U. Panthel
Share 20	IRQ 60         Hold 600         (seconds)
Save & C	ontinue. PrintServer Administration

### Identification:

Print Server Name

• An administratively assigned name for this print server. This is the fully qualified domain name of the print server. Maximum length is 255 characters. Example: PP803\_VT1

#### Location

The physical location of this print server, such as the building, floor, and room. Maximum length is 255 characters. Example: Building A, room 123

**Contact Person** 

• The textual identification of the contact person for the print server as well as information on how you can contact this person. Maximum length is 255 characters. Example: U. Panthel

#### Timeout

Share

• Time interval (in seconds) to wait for more data before processing data from another source. Range: 0 - 9999, the default is 20.

#### IRQ

• Time interval (in seconds) to wait before forwarding an Intervention Request (IRQ) to the host system. Interventions are initiated by paper output / paper error conditions. Range: 0 - 9999, the default is 60.

#### Hold

• Time interval (in seconds) to move messages with respect to an offline state. Range: 0 - 9999, the default is 600.

A help menu can be called up at any time using the question mark.

### **3.1.2 LOGICAL PRINTERS**

See also CHAP .: ""2.6.1 Configuring a logical printer" page 11

Logica	Logical Printers 🧿					
Select a log	Select a logical printer to configure.					
Printer	Printer 1					
$\checkmark$	AFP/ICDS using TCP/IP	PPD [5005]				
$\sim$	AFP/IPDS using TCP/IP	PPD [5001]				
$\sim$	DCA using TN5250e	TNX [:]				
$\checkmark$	SCS using TN3270e	TNX [:]				
$\sim$	TCP/IP transparent port	T_PORT [9100]				
PrintServer     Administration						

### **3.1.3 CONFIGURATION OF A LOGICAL PRINTER VIA WEB**

Zur Konfigurieren eines logischen Druckers, selektieren sie z.B. "AFP/IPDS using TCP/IP"

Configure Logica	Configure Logical Printer				
General Settings:	FP/IPDS using TCP/IP				
PPD	IPDS	Printer	Port	Strings	
PPD Settings:	Sharings:				
TCP port 5001	Settings are sna the following Lo • (non	ared with gical Printers: e)			
Save PrintServer Administrat	Logical Printers     Idion	Help			

#### **Generell Settings**

Activate "Enable" of the logical printer and define the description "Description"

#### → PPD SETTINGS

• TCP Port

Defines the TCP port number to be used for PPD communication. The default port number range is 5001-5006.

- Ports 5001 5002 are traditionally assigned to IPDS.
- Port 5005 and 5006 are assigned to PSS.

#### Reichweite: 100-32000

#### → IPDS SETTINGS

Configure Logica	Configure Logical Printer				
General Settings:					
Enabled Description: A	P/IPDS using TCP/IP				
PPD	IPDS			Strings	
General Codepages  IPDS Settings:  Printer Type Printer Language Code Page Barcode scaling factor Save PrintServe Administra		ared with ggical Printers: e) • Help			

#### **IPDS General**

The default for PSi IPDS interfaces is:

- Printer Type = Matrix
- Printer Language = EPSON LQ
- Code Page = 500
- Barcode scaling factor = 100

### **IPDS Codepages**

Sequences for selecting the printer-internal character set tables can be stored here.

*Example:* PSi Matrix Drucker Code Page 850 = ESC[2;062w =0x1B0x5B0x320x3B0x300x360x320x77

Info:Hex and ASCII can also be mixed= 0x1B0x5B2;063w

tings:					
Descriptio	n: AFP	/IPDS using TCP/IP			
PPD		IPDS	Printer	Port	Strings
l • Code	pages	Tractors			
EBCDIC	ASCII	Codepage selection string			
500	850	0x1B0x5B2;063w			
420	864				
423	851				
424	862				
838	874				
875	1253		]		
870	852		1		
1025	915				
	920				
	EBCDIC           500           420           423           424           838           875           870           1025	APPD           PPD           EBCDIC         ASCII           500         850           420         864           423         851           424         862           838         874           875         1253           870         852           1025         915	AFP/IPDS using TCP/IP           PPD         IPDS           • Codepages         • Tractors           settings:         • Codepage selection string           500         850         0x1B0x5B2;063w           420         864	Prop       IPDS       Printer         I • Codepages • Tractors       • Tractors         Settings:       • Soo 0x180x582;063w         420       850       0x180x582;063w         420       864	Instrume         Description:       AFP/IPDS using TCP/IP         PD       IPDS       Printer       Port         I - Codepages       - Tractors         settings:         EBCDIC       ASCII       Codepage selection string         500       850       (Dx1B0x5B2;063w)         420       864

### **IPDS Tractors**

Sequences for selecting the printer's internal tray control can be stored here.

- Tractor 1 (Tractor lower PP 407/8 Traktor PP 404/5) = ESC [7s
- Tractor 2 (Tractor upper PP 407/8)

- = ESC [7s = ESC [6s
  - = 0x1B0x5B0x360x73

= 0x1B0x5B0x370x73

Configure Logical Printer				
General Settings:				
■ Enabled Description: AFP/IPDS using TCP/IP				
PPD	IPDS	Printer	Port	Strings
General · Codepages · Tractors Tractor settings:				
Tractor	Tractor selection string	Paper size		
Tractor 1	0x1B0x5B0x370x73	160x12 V		
Tractor 2	0x1B0x5B0x360x73	80x12 V		
	Add paper size			
PrintServer     Logical Printe	rs • Help			
Administration	- mak			

### ➤LOGICAL PRINTER SETTINGS

Definition of the printer name or determining description

Configure Logical Pr	Configure Logical Printer				
General Settings:	S using TCP/IP				
PPD	IPDS	Printer	Port	Strings	
Printer Settings: Auto Configure Settings Printer Name Printer 1 Description PP803_1VT	Sharings: Settings are shared with the following Logical Printers: • TCP/IP transparent port • SCS using TM3270e • DCA using TM5250e • AFP/ICDS using TCP/IP				
Save PrintServer Administration	Logical Printers     Help				

### ►LOGICAL PRINTER PRINTER PORT

Setting of the output port Ethernet or USB

 With TCP / IP Network Port Driver, the IP address of the printer and the port (9100 standard) must be specified

### **Network Port 1 Settings**

Configure Logical Printer					
General Settings:					
Enabled Description: AFP/IPD	S using TCP/IP				
PPD	IPDS	Printer	Port	Strings	
Change Port Driver     Contemporation     Network Port 1 Settings:  IP Address  I92.168.210.87  TCP/IP Port 9100	Sharings: Settings are shared with the following Logical Printers: • TCP/IP transparent port • SCS using TM3270e • DCA using TM3250e				

#### **Change Port Driver**



• No settings are required for the USB Port Driver

Configure Logical Prin	ter		
General Settings:			
Enabled Description: AFP/IPDS us	ing TCP/IP		
PPD			Strings
Change Port Driver			
USB Port 1 Settings:	Sharings:		
✓ Use Bi-directional Communication	Settings are shared with the following Logical Printers:		
	<ul> <li>TCP/IP transparent port</li> <li>SCS using TN3270e</li> <li>DCA using TN5250e</li> <li>AFP/ICDS using TCP/IP</li> </ul>		
Save PrintServer • L Administration	ogical Printers • Help		

### ►LOGICAL PRINTER STRINGS

#### **Pre-String**

• EA defined data string is sent to the printer before each job. Examples could be a banner, a printer initialization string, a tray select or an overlay select.

*Example:* 0x0c = HEX 0C = Form Feed. A form feed is now sent to the printer before each print page.

- Post-String
- A defined data string is sent to the printer after each job. Examples could be a printer reset or a form feed at the end of the job.

*Example:* 0x1B0x40 = HEX 1B 40 = reset. A reset is sent to the printer after each print job.

- Replace
- String substitution! Replace one string with another. Multiple substitution strings can be defined. Format: [string1], [Substitution1]; [StringN], [SubstitutionN]

Example: [0xCF], [0x1B0x5B6;063w0xd50x1B0x5B2;063w]; [Mittag], [Abend]

Configure	Configure Logical Printer				
General Settings	:				
Enabled Descri	iption: AFP/IPDS using TCP/IP				
PF	PD	IPDS	Printer	Port	Strings
String Settings:					
Pre-string (max. 250 characters)	0x0c	A			
Post-string (max. 250 characters)	0x1B0x40				
Replace (max. 250 characters)	[0xCF], [0x180x586;063w0xd50x1 [Mittag], [Abend]	B0x5B2;063w];			
Save	PrintServer • Logical Printers Administration	• Help			

*Note:* Pre-strings, post-strings and replace can also be read from a file.

### 3.1.4 TCP/IP

#### **Enable TCP/IP**

• Wählen Sie diese Option, wenn Sie das TCP / IP-Protokoll verwenden möchten.

Attention: If you disable TCP / IP, you will not be able to configure the print server using a web browser.

#### **HTTP Port**

• You can choose the port to be used by a web browser. This gives you access to the print server web pages.

*Note:* if you change the standard port (80), e.g. to port (82), you must use the following notation in the web browser address line on the print server websites:

*Example:* 172.16.14.108:82 (Zusatz :Port). *Warning:* some ports are reserved for other purposes.

#### **Enable FTP**

Select this option if you want to use the FTP protocol for configuration or printing:

*Warning:* If you disable FTP, you will not be able to print using FTP.

#### **IP Lookup Method**

- The IPDS print server automatically receives the IP address or network information from a DHCP, BOOTP or RARP server in the network.
- If none of these servers are available in your network, the print server will first receive an IP address using the Auto-IP algorithm. This IP address is in the range 169.254.xxx.xxx. You then have to manually adapt this to your IP address range.

#### WINS

• If Windows Internet Name Service (WINS) is enabled, the print server is registered with its IP address and NetBIOS name and workgroup name on a WINS server.

#### DNS

• The print server uses this registered Domain Name System (DNS) server to resolve host names and IP addresses. A maximum of 14 DNS servers can be specified.

TCP/IP Se	TCP/IP Settings 🕜				
To record change at the <b>bottom</b> of	s, click <b>Save &amp; Continue</b> the page.				
General					
Enable TCP/IP					
Host Name Gateway 192 HTTP Port 80	.168.210.3				
<ul> <li>Automatic - Of using DHCP.</li> </ul>	Method otain IP address and related information				
O Manual - Use the IP address, sub-	he manually entered and permanent net mask, etc:				
IP Address	192.168.210.70				
Subnet Masl	< 255.255.255.0				
DNS Servers ;8.8.8.8					
Write IP addresses on same line with ';' in front. Example: ;192.134.56.67;192.134.56.69					
Save & Cor	ntinue. PrintServer Administration				

### 3.1.5 PASSWORD

The administrator password provides access to the protected configuration of the print server / printer. The default password is "Adm"

Password	(?)			
Type password(s You are prompte	below and click <b>Save &amp; Continue</b> . I for the password the first time you access a secure page.			
Administrator Password				
	Old Password			
	New Password			
	Verify Password			
Note: The password can be max. 31 characters long.				
Login TimeOut				
	Save & Continue. PrintServer Administration			

Enter the old password (Adm) and assign your own password, which must be confirmed again.

### ►LOGIN TIMEOUT

Time interval (in seconds), to postpone messages relating to an offline condition. Range: 0 - 9999, default is 600.

Closed	Connection Timer.
	Password Valid after Closed Connection(in seconds) 600
	Save & Continue. PrintServer Administration

### **3.2 STATUS**

Displays the current status of the print server.

EasyCom Status

Status View the active configuration for your EasyCom. Configuration Page View configuration page for the EasyCom. → COFIGURATION PAGE Test Printout ... Product: EasyCom 5 Version: 654.090 Copyright: (c)2020, MPI Tech A/S Company Information ... MPI Tech Midtager 29, DK-2605 Broendby Phone: +45 4436 6000 Web-site: www.mpitech.com Feature Information ... IPDS PPM BW: 5, PPM color: 5 IPDS font version: S92 103.057/0143800 SCS/DCA Available Host2Net output: 1 Net Information ... HW/MAC address: 98-5d-ad-41-a3-74 IPv6 address: fe80::9a5d:adff;fe41:a374%eth0/64 IPv6 address: fe80::8297:b241:6f8d:b8d1%eth0/64 IPv4 address: 192.168.210.70, netmask: 255.255.255.0/24, default gw: 192.168.210.3 HostName: lc5-41a374.psi.lan PRINTER 1 - Printer 1 Driver: TCP/IP Duplex/Autoconfig: no / no Memory(PS/PCL): 83 KiB / 3060480016 KiB Job status(previous/current): OK / (none) SESSION 1 - TCP/IP transparent port T\_PORT 1 TCP port: 9100 PRINTER 1 SESSION 2 - AFP/IPDS using TCP/IP PPD 1 TCP port: 5001 IPDS 1 Emulation: IBM4247 ICDS 1 Language: MATRIX PRINTER 1 SESSION 3 - SCS using TN3270e TNX 1 Device name: Host IP addr: SCS 1 ICDS 2 Language: MATRIX PRINTER 1 SESSION 4 - DCA using TN5250e TNX 2 Device name: Host IP addr: DCA 1 ICDS 2

### Summary

PrintServer	
Name:	PP803_VT1
Contact:	U. Panthel
Location:	Vertrieb 2.0G
Application Firmware:	S80 654.090

Ethernet MAC Address: 985dad41a374

#### Quick Reference IBM 4247

Language: MATRIX

TCP port: 5005 ICDS 2 Language: MATRIX PRINTER 1

PPD 2

PRINTER 1 SESSION 5 - AFP/ICDS using TCP/IP