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1. Precautions

1.1. Purpose

The USB print server mainly provides network printing support for a USB printer. Any computers and Android mobile phones under the same Ethernet network can be connected to the print server through the network (Wired or Wireless connection) for printing. 0.,

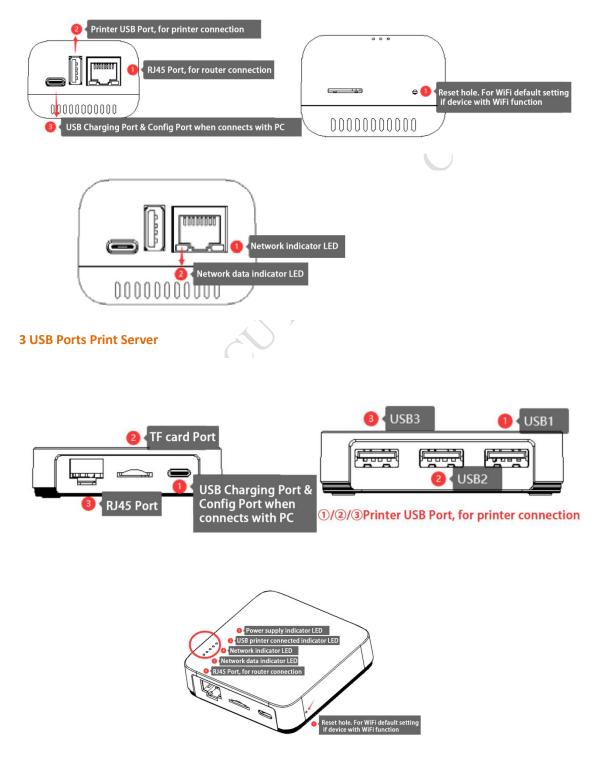
1.2. Definition

Description
A print server that supports printing with USB
printer via RJ45 Ethernet connection
A print server that supports printing with a USB
printer via RJ45 Ethernet connection or WiFi.
A print server that supports printing with a USB
printer via RJ45 Ethernet connection or
Bluetooth.
A device supports connecting 1 USB printer.
A device supports connecting 3 USB printers
simultaneously.
A client that supports network connection
configuration for print server, USB printer,
computer, smartphone, and router.
Only Windows system Computer supports Print
Server Config Tool;
MAC OS and Windows Computer support
printing job with the print server.
Only Android Smartphone supports printing job
with the print server.
The print server only supports USB printers with
the RAW protocol.
Supports printing via a print server in the same
WLAN.

2. Production Description

2.1. Print Server Appearance

1 Port USB Print Server



2.2 Print Server Config Tool Main Interface

2.2.1. Definition

Definition	Description
Info	Display print server basic information, such
	as device name, software version, etc
Device Parameter	Modify print server name, mac address,
	printing transmission mode
Network Config	Configure the IP address of print server via
	Wired or WiFi method
Firmware Upgrade	Upgrade the latest software of print server
Reboot	Reboot the print server, virtual USB port
	software for printer scan function

2.2.2. Interface Introduction

2.2.2.1. Info Interface

	Reboot		Reboot the print server, virtual	obb port
			software for printer scan function	
2.2	2.2. Interface	Introduction	lectronics	
2.2	.2.1. Info Interf	face		
Pr Pr	int Server Config Tool			
		Info Device Parameter Network C	onfig Firmware Upgrade Reboot	EN
	make print sharing easy and free Device Info			
	Device Name	Printer Server	Reconnect	efresh
	Hardware Version	WN0x	Reconnect R	Automatica (
	Software Version	20210608.1		
	Running Time	233 1 D	evice basic info	
	Network Info	-		
	MAC Info	08:00:27:00:01:92		
	WiFi Info	192.168.0.123 a0:9f:10:db:a2	:61	
	4G Reserve		ternet connection status	
	USB Ports of Print Server	3 m		
	US81	4f9/2d0/100 9100 MFG:Brother;CMD:PJL,XL2HB;M	DL:DCP-1510 series;CLS:PRINTER;CID:Brother Laser Type 1;	
	USB2	9101 3	ecognized printer info	
	U\$83	9102		
	5		roduct ID 4	
	192.168.0.123	Via Network Connection Productil	D:WN01-20210712002 WIN64	

2.2.2.2. Device Parameter Interface

Device Name	Printer Server	Save	
Printing Transmission Mode	Starts to print while receiving file $\qquad \lor$	Save	
MAC Addr	08:00:27:00:01:92	Save	
SB Port Config			
SB Port Config			
US8 1 Binding TCP/IP Port	9100		
	9100		
US8 1 Binding TCP/IP Port		Save	
Port Config			

Device Name: When there are multiple print servers in the network, it is recommended to modify the device name, so that the mobile phone can quickly connect to the assigned print server for printing.

Printing Transmission Mode: The default mode is" Starts **to print while receiving file**". For printer with higher data transmission, suggest choosing" Starts **to print after received file**"

MAC Add: Unique MAC address is required, when there have multiple network print servers in the Ethernet via network (RJ45 cable) connection

USB Port Config: For one port USB print server, please use the **"USB1"** port only, default port number:9100. If users need to change this port number, please make sure the port number is as same as in the printer properties TCP/IP port. Port number range: **9100~65535**.

2.2.2.3. Network Config Interface

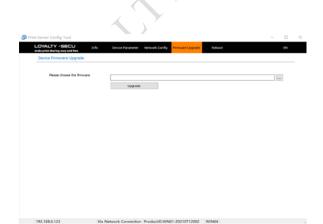
DYALTY - S		Device Parameter Network Config	Firmware Upgrade	Reboot	
Wired/WiFi N	etwork Config				
Wre	d Network Config				
	Obtain an IP Address	Fixed IP Address	~		
	IP Addr				
	Subnet Mask				
	Gateway	192.168.0.1			
	DNS Addr	192.168.0.1		Save	
WF	i Network Config				
	Choose Available WiFi Internet	Click "Scan "button to search WiFi inte	rnet 🗸	Scan	,
	WiFi Password				
	Obtain an IP Address	Fixed IP Address	~		
	IP Addr	192.168.0.123			
	Subnet Mask	255.255.255.0			
	Gateway	192.168.0.1			
	DNS Addr	192.168.0.1		Save	

Wired Network Config: The print server connects to the internet via RJ45 Cable

WiFi Network Config: The print server connects to the internet via a WiFi hotspot

Note: It is not recommended to use automatic IP address acquisition for the print server. After connecting with the configuration tool, it is recommended to change the IP address to a fixed IP address or set it to static allocation in the router.

2.2.2.4. Firmware Upgrade Interface



Please choose the latest firmware to upgrade the print server, then click the "Upgrade" button, After finishing the update, need to reboot the print server.

2.2.2.5. Reboot Interface

LOYALTY -SECU make print sharing easy and free	Info	Device Parameter	Network Config	Firmware Upgrade	Reboot		EN
Rebo	ot Device	Reboot					
							y

Reboot is for rebooting the print server

3. Basic Configuration and Operation

Note: It only supports config the print server with print server config tool via Windows operating system computer. Mac operating system computer does not support. After configuration successfully via windows operating system computer, you can use Windows and Mac operating system computers to explore printing via our print server directly.

3.1. Print Server Configuration Tool Preparation (for Windows

OS Config only)

3.1.1. Print Server Configuration Tool Download

Please download the **Configuration Tool** from LOYALTY-SECU's official website: <u>https://loyalty-secutech.com/print-server-data-download/</u> or contact our customer service to obtain the configuration tool of the print server. Contact email: <u>info@loyalty-secu.com</u>

3.1.2. Print Server Configuration Tool Installation

The	e pac	kage	of	print	server	config	tool	is	shown	as	below:
> USB	Print Server Config To	col(SV) > Print S	erver Config Too	60715							
^	Name	~		Date modified	Туре	Size					
- 11	Ianguage			7/18/2021 2:24 PM	File folder						
	config			7/15/2021 8:25 AM	Configuration setting	gs 1 KB					
	Print Server	Config Tool		7/18/2021 2:06 PM	Application	18,930 KB					

double-click [**Print Server Config Tool**] to configure the parameters, it is no need for any software installation process. the interface as shown as below:

LOYALTY -SECU	Device Parameter Network Config Penware Upgrade	Reboot	
Device Info			
Device Name Handware Version Software Version Running Time		Reconnect	Refeat
Network 3:50		-	
NAC 345 still 345 45 Repairse USB Parts of Print Server	Ennvert Minbod Ris select is convection method Ris select a convection method Ris select acconvection method Ris select acconvection Ris sele		
USRI	Apply		
1682			
US83			

Note: After running the configuration tool, the Windows PC may remind you whether to allow access to the network. If you use network configuration, you must allow access to the network so that the configuration tool can obtain the list of print servers in the network.

3.2. Print Server Connection with Print Server Config Tool (for

Windows OS Config only)

3.2.1. Connection Via USB Cable

3.2.1.1. Preparation Work before Connection Configuration

- ✓ A computer with Windows operating system
- ✓ A USB cable with TYPE C interface (Included in the packing box)
- ✓ Print Server Config Tool (Windows version)

3.2.1.2. Connection Configuration Steps

3.2.1.2.1. Connect the print server to the computer via the USB cable





As shown as right:

After being connected to the computer, the print server will automatically power on and start. and the print server config tool will display the "USB" sign in the lower-left corner, indicating that the config tool has been identified as the print server as shown as below:

Note: Please kindly note it will take about 20 seconds to finish the entire startup process.

RAKE print sharing easy and free	Info Device Param	eter Network Config Firmware Upgrade	Reboot	EN
Device Info				
Device Name	Printer Server		Reconnect	Refresh
Hardware Version	WN0x			
Software Version	20210603.1			
Running Time	20			
Network Info				
MAC Info	08:00:27:0	0:01:92		
WiFi Info	1			
4G Reserve	1			
USB Ports of Print Server				
US81	9 100			
U582	9101			
US83	9102			
	Via USB Cable	ProductID:WN01-20210712002	WIN64	

3.2.1.2.2. Confirm the Ethernet IP Address of the Print Server

2 ways for the print server to obtain the IP Address:

Way 1: Use DHCP to obtain an IP address from the network

It will assign the print server a dynamic IP address when connecting the print server with the router,

please kindly make sure your router supports the DHCP function.

Way 2: Obtain a fixed IP Address

Click "Start Menu---Run" or use the "WIN+R" key combination to call the run window, enter "cmd" in the Run window, click OK as shown as below:

Type the name of a program, folder, document, or Interesource, and Windows will open it for you.	ernet
Open: cmd	~

After inputting "ipconfig", click the "Enter" button, then the IP Address, Subnet Mask, Gateway information will be displayed as shown as below:

- 1) Network Segment: 192.168.0.xxx
- 2) Subnet Mask: 255.255.255.0
- 3) Default Gateway: 192.168.0.1

Command Prompt	-	×
Media State : Media disconnected Connection-specific DNS Suffix . :		~
Wireless LAN adapter WLAN:		
Connection-specific DNS Suffix : DHCP HOST Link-local IPv6 Address : fe80::ifd:6f7c:d033:4078%7 IPv6 Address : 192.168.0.104 Subnet Mask : 255.255.0 Default Gateway : 192.168.0.1		

3.2.1.2.3. Set the Ethernet IP Address of the Print Server

2 ways to set network configuration: (wired network config or WiFi network config) Way 1: Wired Network Config (for network print server)

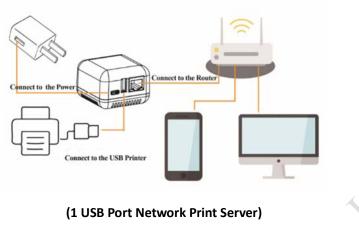
Input the below parameters in the Wired Network Config, then click the" Save" button as shown as below:

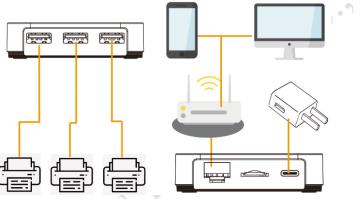
(For demo using only)

Eg: 1) IP Address: 192.168.0.123(Fixed) 2) Subnet Mask: 255.255.255.0

t Server Config Tool					
LOYALTY -SECU make print sharing easy and free	Info	Device Parameter	Network Config	Firmware Upgrade	Reboot
Wired/WiFi Network Confi	ig				
Wired Network Con	ifig				
Wired Network Con Obtain an IP IP Addr		Fixed IP Address 192.168.0.123		~	
Obtain an IP	Address		8 	~ 	
Obtain an IP IP Addr	Address	192.168.0.123		× 	

After configuring the corresponding parameters, remove the USB cable from the computer. And connect relevant devices as shown as below:





(3 USB Ports Network Print Server)

Way 2: WiFi Network Config (for WiFi print server)

Click the "Network Config" interface, configure the parameter via "WiFi Network Config" as shown as below:

LOYALTY •SECU Info make print sharing easy and free	Device Parameter	Network Config	Firmware Upgrade	Reboot	EN
Wired/WiFi Network Config					
Wired Network Config					
Obtain an IP Address	Obtain an IP Addr	via DHCP	~		
IP Addr					
Subnet Mask					
Gateway					
DNS Addr				Save	
WFi Network Config					
Choose Available WFi Inter	net Click "Scan buttor	to search WIFi inte	ernet 🐱	Scan	
WIFi Password					
Obtain an IP Address	Fixed IP Address		~		
IP Addr					
Subnet Mask					
Gateway					
DNS Addr	-			Save	

Click "Scan" to search nearby WiFi hotspots, the result will be displayed in the drop-down list within 5 seconds, select the right WiFi hotspot you need to connect, input the parameter, then

click "Save", as shown as below:

- Eg: 1) IP Address: 192.168.0.123(Fixed)
 - 2) Subnet Mask: 255.255.255.0

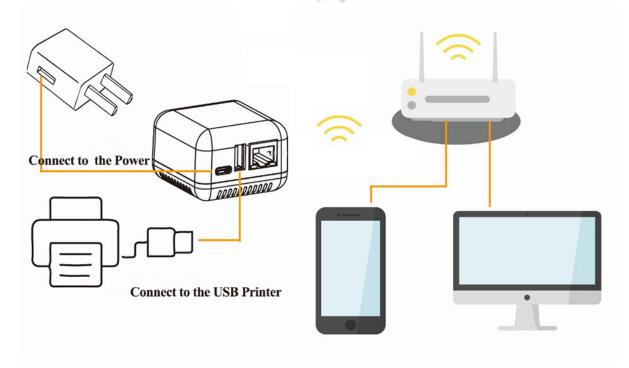
(For demo using only)

3) Gateway & DNS: 192.168.0.1

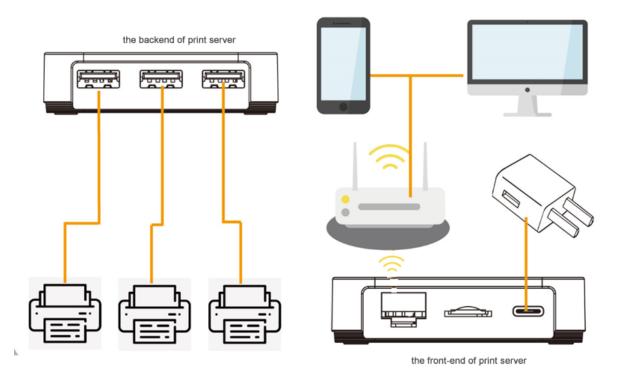
Choose Available WiFi Internet	simplyisbest	~	Scan 🚽	 1.Click "Scan" to search the WiFi internet nearby,and
WiFi Password	Rj4781956			choose the right one
	Promotion and a second s		2.Input WiFi passv	vord
Obtain an IP Address	Fixed IP Address	~		
IP Addr	192.168.0.123			
Subnet Mask	255.255.255.0	🛶	3.Assign an fixe	d IP address, fill in all the info
Gateway	192, 168.0.1			
DNS Addr	192.168.0.1		Save	4. Click "Save" button

The parameter configuration procedure of Ethernet IP Address is as same as <u>3.2.1.2.2. part</u>, so do not repeat here.

After finishing the WiFi network config, remove the USB cable from the computer. And connect relevant devices as shown as below:



(1 USB Port WiFi Print Server)





3.2.2. Connection via Network

3.2.2.1. Preparation Work before Connection Configuration

- ✓ A computer with Windows operating system
- ✓ Power on the print server, and connect it to the router via network cable
- ✓ Print Server Config Tool (Windows version)

3.2.2.2. Connection Configuration Steps

3.2.2.1. Connect the Print Server to the Computer via Network

Open the config tool, choose the "Via Network" method, and select the IP address of the print server from the Ethernet, as shown as below:

Note: The print server with an operating system inside and it takes about 20 seconds to start up after powering on.

DYALTY -SECU	Info	Device Parameter N	etwork Config	Firmware Upgrade	Reboot		EN
Device Info							
Device Name					1	Reconnect	Refresh
Hardware Version							
Software Version							
Running Time							
Network Info		Connect Method					
MAC Info				1			
WiFi Info		Pls select a connec					
4G Reserve		○ Via USB Cal					
USB Ports of Print Server		Via Network	¢				
USB1			Apply				
USB2							
USB3							
					2		-
Server Config Tool	Info	Device Parameter	Network Config	Firmware Upgrade	e Reboot		
Server Config Tool	Info	Device Parameter	Network Config	Firmware Upgrade	e Reboot		
Server Config Tool OYALTY -SECU Jake print sharing easy and free	Info	Device Parameter 1	Network Config	Firmware Upgrade	e Reboot	Reconnect	
Server Config Tool COVALTY -SECU ake print Sharing easy and free Device Info	Info	Device Parameter	Network Config	Firmware Upgrade	Reboot	Reconnect	E
Server Config Tool OYALTY -SECU ake print sharing easy and free Device Info Device Name	Info	Device Parameter	Network Config	Firmware Upgrade	Reboot	Reconnect	E
Server Config Tool OVALTY -SECU ake print sharing easy and free Device Info Device Name Hardware Version	Info	Device Parameter 1	Network Config	Firmware Upgrade	. Reboot	Reconnect	E
Server Config Tool OVALTY -SECU aske print sharing easy and free Device Info Device Name Hardware Version Software Version		Device Parameter		Firmware Upgrade	x Reboot	Reconnect	E
Server Config Tool UVALTY - SECU Iske print Sharing easy and free Device Info Device Name Hardware Version Software Version Running Time				Firmware Upgrade		Reconnect	E
Server Config Tool CVALTY -SECU aske print sharing easy and free Device Info Device Name Hardware Version Software Version Running Time Network Info				Firmware Upgrade		Reconnect	E
Server Config Tool COVALTY -SECU Interprint Sharing easy and free Device Info Device Name Hardware Version Software Version Running Time Network Info MAC Info				Firmware Upgrade		Reconnect	E
Server Config Tool LOVALTY - SECU Jake print Shuring easy and free Device Info Device Name Hardware Version Software Version Running Time Network Info MAC Info WiFi Info			e network	Firmware Upgrade		Reconnect	E
Server Config Tool CVALTY -SECU aste print sharing easy and free Device Info Device Name Hardware Version Running Time Network Info MAC Info WFi Info 4G Reserve		nd a print server on th	e network		×	Reconnect	E
Server Config Tool CVALTY - SECU aste print sharing easy and free Device Info Device Name Hardware Version Software Version Running Time Network Info MAC Info WiFi Info 4G Reserve USB Ports of Print Server	Fi	nd a print server on th	e network		×	Reconnect	E
Server Config Tool LOVALTY - SECU Jake print Shuring easy and free Device Info Device Name Hardware Version Running Time Network Info MAC Info WiFi Info 4G Reserve USB Ports of Print Server	Fi	nd a print server on th	e network		×	Reconnect	E
Server Config Tool LOVALTY - SECU Jake print Shuring easy and free Device Info Device Name Hardware Version Running Time Network Info MAC Info WiFi Info 4G Reserve USB Ports of Print Server	Fi	nd a print server on th	e network		×	Reconnect	E

3.2.2.2. Set the Ethernet IP Address of the Print Server

The parameter configuration procedure is as same as <u>3.2.1.2.2. part</u>, so do not repeat here. After finished configuration, please click **"Save"** as shown as below:

LOYALTY - SECU Info make print sharing easy and free	Device Parameter Network Config	Firmware Upgrade	Reboot	EN
Wired/WiFi Network Config				
Wired Network Config				
Obtain an IP Address	Fixed IP Address	\sim		
IP Addr	192.168.0.125			
IP Addr Subnet Mask	192.168.0.125 255.255.255.0			

3.3. How to Config Computer to Print?

3.3.1. Take Win 10 operating system for example

Note: After finishing the configuration between the print server and the print server config tool, it needs to add a printer to the computer for printing.

Click the "Start" menu \rightarrow Choose "Setting" \rightarrow choose "Devices" \rightarrow choose "Printer & Scanner" \rightarrow Choose "add a printer & scanner", if you didn't find your printer in the list, click "The printer that I want isn't listed" and choose option ③ as shown as below:

← Settings		-
යි Home	Printers & scanners	
Find a setting	Add printers & scanners	Add Printer Add Pr
Devices	C Refresh	Find a printer by other options
Bluetooth & other devices	Searching for printers and scanners	
🔒 Printers & scanners	The printer that I want isn't listed	My printer is a little older. Help me find it. Select a shared printer by name
① Mouse	The printer that i want isn't listed	Browse
Touchpad	Printers & scanners	Example: \\computername\printername or http://computername/printers/printername/.printer
I Typing	Adobe PDF	Add a printer using a TCP/IP address or hostname Add a Bluetooth, wireless or network discoverable printer
Pen & Windows Ink	Brother DCP-1510 series Default, Driver is unavailable	Add a Bluetooth, wretes or network discoverable printer Add a local printer or network printer with manual settings
AutoPlay AutoPlay	Brother DCP-1510 series Default	
🖞 USB	Fax	Next Cancel
	FX2E1727 Not connected	
	Microsoft Print to PDF	
	Microsoft XPS Document Writer	

"Create a new port", and the "type of port" is "Standard TCP/IP Port", Click the" Next" button as shown as:

~

	×	🗧 🛷 Add Printer	^
÷	Add Printer	Type a printer hostna	ame or IP address
	Choose a printer port A printer port is a type of connection that allows your computer to exchange information with a printer. O Use an existing port: Create a new port:	Device type: Hostname or IP address: Port name:	TCP/IP Device -
	Type of port: Standard TCP/IP Port	e disable this o	itomatically select the driver to use
	Next Cancel		Next Cancel
	ck the "next" button to continue and show and choose "Custom" and click "next" to cont	tinue the next ste	ep:
←	🖝 Add Printer		
	Additional port information required The device is not found on the network. Be sure that: The device is normed on. The device is properly configured. The address on the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct, click Back to return to the previous page. Then correct the address is not correct.	ilectro	
	Next Cancel		
~	there is not your brand Model NO. printer di) as shown as below:	river in list ①, it	can obtain from option ② and
÷	a Add Printer	×	
	Install the printer driver		

1		
Manufacturer	Printers	
Adobe	Adobe PDF Converter	
Brother		
Generic		
Microsoft		
	2	3

After clicking **"Windows Update"**, It can obtain a printer driver brand list as shown as follows: If there still haven't your brand model NO. printer driver, pls click **"Have Disk"** and copy your USB

printer manufacturer's printer driver from your disk to install the driver into the computer. As shown as below:

		← 🛷 Add Printer		
Add Hinter Install the printer driver Choose your printer from the lat. Click Windows Update to se	*	To install the driver fro	rom the list. Click Windows Update to see more models. om an installation CD, click Have Disk.	
To install the driver from an installation CD, click Have Disk. Manufacturer EXXXCON Printers EXXXCON Printers	Install From Disk X	Manufacturer Adobe Brother	Printers Brother Color Leg Type1 Class Driver Brother Color Type3 Class Driver	
Boca Brother DCP-128C USB Printer Ceditor CAB Brother DCP-128C USB Printer Brother DCP-128C USB Printer Brother DCP-131C USB Printer	Coyy manufacture's files from:	Generic Microsoft	Brother DCP-1510 series briver Brother Generic Jpeg Type1 Class Driver Brother Generic Jpeg Type2 Class Driver	
The driver is digitally signed. Workdows Update Tell me why driver signing is important	Hand Disk.	This driver is digitally signed Tell me why driver signing		-
1	Nest: Cancel		Next Ca	nce

Note: If you still cannot obtain the printer driver from "Windows Update" or "Have Disk", please connect your USB printer with the computer, it will install the printer driver into the computer directly. Or contact your USB printer supplier to obtain a printer driver.

And click" **next**" after finishing the installation.

Then click the **"Start"** menu \rightarrow Choose **"Setting"** \rightarrow choose **"Devices"** \rightarrow choose "Printer & Scanner" \rightarrow Choose the target printer as shown as below:

									4- Settings		-	2	×
Settings							2	o x	© Home		Printers & scanners		
				W	/indows Settings				Find a setting		Add printers & scanners		1
			-			_			Devices		+ Add a printer or scanner		
			Find a	etting	9.	·P			Bluetooth & other devices				
									Printers & scanners		Printers & scanners		
E	Sy Di	estem opiny: source, not fications,		-	Devices Bartooth, printers, mouse		Phone Link your Android, iPhone		0 Mouse		Adobe PDF		
	90	Swift							E Touchpad		Brother DCP-1510 series Default, Driver is unavailable		
6		etwork & Internet LAN, argiane mode, VPN		4	Personalization factground, lock screen, colors	IE	Apps Unvestal, defaults, optional Natures		Typing	1	Brother DCP-1510 series Default, Not connected		
									💣 Pen & Windows Ink		₽ Fax		
3		ccounts		} ₽	Time & Language	8	Gaming		(R) AutoPlay				
		ner accounts, email, symp. ork, family			Speech, region, date		Game bar, captures, broadcasting, Game Mode		Ö USB		A FX2E1727 Nat connected		
		1102-20.000		~	800000	0					Microsoft Print to PDF		
(No	ise of Access anator, magnifier, high intrast		0	Cortana Cortana language	Q	Search Find my film, permissions						
	10	Prevalue.									Microsoft XPS Document Writer		

Right-click the **"Brother DCP-1510 series"** printer and choose **"Printer Properties**", as shown as below:

← Settings	-	×
Manage your device		
Printer status: Default Open print queue Set as default		
Print a test page		
Run the troubleshooter		
Printer properties		
Printing preferences		
Hardware properties		
Get help		

Choose "Ports"-> Click "Add Port", Choose "Standard TCP/IP Port" and click "New Port" and

"next" as shown as below:

Brother DCP-1510 series Properties X	Add Standard TCP/I	IP Printer Port Wizard
Color Management Security Device Settings General Sharing Ports Advanced	Brother DCP-1510 series Properties	Welcome to the Add Standard
Stother DCP-1510 series	Color Manacement Security Printer Ports Available port types:	TCP/IP Printer Port Wizard This wizard helps you add a port for a network printer. Before continuing be sure that:
Print to the following port(s). Documents will print to the first free checked port. Port Description Printer ^ UPT1: Printer Port	Adobe PDF Port Monitor Local Port Standard TCP/IP Port	 The device is turned on. The network is connected and configured.
[PT3: Printer Port [COM1: Serial Port [COM2: Serial Port [COM3: Serial Por	New Port Type New Port CCM2: Senial Port CCM3: Senial Port CCM4: Senial Port CCM4: Senial Port	To continue, citit 444ct
Add Port Delete Port Configure Port	Add Port_ Delete Port 1	< Back Next > Cancel
OK Cancel Apply	OK Cancel Apply	

Input the IP address of the Print Server, choose "Custom", click "setting" as shown as below:

I Standard TCP/IP Printer Port Wilard ditional port Information required the device is not found on the network. Be sure I. The device is turned on. 2. The network is connected. 3. The device is turned on. 3. The device is turned on. 4. The device is not found on the previous page is correct. 4. The device is not correct, dick Back is correct, select the device the device by poet Monthor C LPR Prot Name: 192.168.0.105 Prot Name: 192.168.0.105 P	Add port For which device do you want to add a p	port?	
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Please make sure **IP address** (3) and **Port Number** (5) are as same as print servers, and **Protocol** (4) is Raw. You can check the "**Info**" interface of the print server in the print server config tool to double-check.

Note: If it is 3 USB Ports Print Server, please kindly note that the **Port Number** (5) is different

from per USB port.

After the above "Port Settings" is finished, please click "OK" to continue. And click "Next" as

shown as below:

Add Standard TCP/IP Printer Port Wizard

Additional port information required The device could not be identified.	
The device is not found on the network. Be sure that: 1. The device is turned on. 2. The network is connected. 3. The device is properly configured. 4. The address on the previous page is correct. If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below. Device Type C Standard Generic Network Card If Custom	
< Back Next > Cancel	

After finishing adding the TCP/IP Port, the printer IP Address and port number will be displayed as shown as follows:

Add Standard TCP/IP Printer Port Wizard

		the Add Stand ter Port Wizar	
	ou have selected a haracteristics.	port with the following	
S	NMP:	No	
P	rotocol:	RAW, Port 9100	
D	evice:	192.168.0.105	
P	ort Name:	192.168.0.105_1	
А	dapter Type:		
Τι	o complete this wiz	ard, click Finish.	
		< Back Finish	Cancel

Now all settings are completed, we can start to "print a test page" to test if the setting is

successful or not, as shown as below:

← Settings
ி Brother DCP-1510 series
Manage your device
Printer status: Default
Open print queue Print a test page
Run the troubleshooter
Printer properties
Printing preferences
Hardware properties
Get help

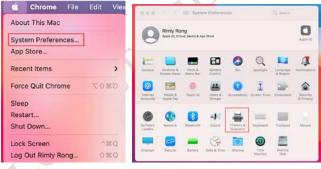
3.3.2. Take Mac operating system for example

Before proceeding on the setting, please notice the below items in advance:

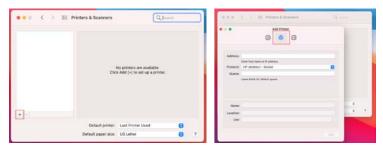
- ✓ Make sure the MAC computer can print directly when connected to the USB printer.
- ✓ MAC System can recognize the USB printer with 9100 Port only and is unable to recognize the printers with 9101/9102/9103 Port.
- ✓ MAC System supports most of the brand printers such as HP, Brother, Samsung; Supports a few limited models for Canon and Epson.
- MAC System support to print via HP Jetdirect-Socket Protocol, not support the IPP, LPD Protocol

Steps for MAC system to add the printer:

Choose the "System Preferences", and choose the "Printers & Scanners" as shown as below:



Click"+", to add the Printer. And Choose the "IP" Option, to fill in the printer information as shown as below:



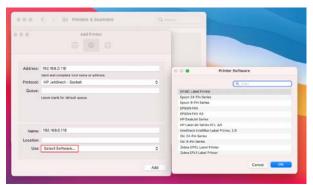
Note:

Address: Input IP Address or Host Name (the print server IP address)

Protocol: HP Jetdirect-Socket (HP and other printer manufacturers are using this protocol)

Use: Select Software

For other items just keep the default options as shown as below:



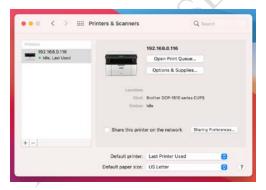
Choose the right printer software from the listing.

You can use the "Filter" function for a quick search. If you cannot find your printer software from the existing listing, please go to the printer's website to download the MAC driver. After finding your printer software, please click "OK"

lectron

	192 168.0 116	Printer Software
	Valid and complete heat name or address.	
Balance	19 Jetdrect - Societ	Q.11-2
		Brother DCF-1510 series CUPS
Queue:		Brother HL-1110 series CUPS
	Lasve blank for default queve.	Brother MPC-1010 acries CUPS StrUCL advantation
		Tpsin 24-Pin Sanas
		Tasso 9-Pin Taries
		LPSON FAX
		LPSON FAX A3
Nation	192.168.0.116	HI DeskJet Series
Location		+P Later.int Series PCL 4/5 resilita-ch.interliker Label Fromer, 2.3
	Select Software_	Di 24-Pin Series
Use	Select Software	Con Section States
		Carcel C4

After finishing the printer software installation, you can explore the printing now.



3.4. How to Config Bluetooth Device to Print?

Note: It only supports Windows OS and Android OS printing via Bluetooth function

3.3.1. Bluetooth Printing via Windows OS

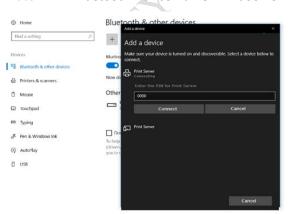
How to connect a print server to a computer using Bluetooth www.loyalty-secutech.com 21

Bluetooth & other devices

- 1) Open Settings.
- 2) Click on Devices.
- 3) Click on Bluetooth & other devices.
- 4) Turn on the Bluetooth toggle switch.
- 5) Click the Add Bluetooth or other device button to connect to the print server.

As shown as below:

			+ Add Bluetooth or other device	
← Settings		- ¤ ×	Bluetooth Add a device	×
Home	Bluetooth & other devices		On Add a davisa	
Find a setting	Add Bluetooth or other device	Turn on Bluetooth even faster To turn on Bluetooth without	Now discoverable as Choose the kind of device you want to add.	
Devices	Bluetooth	opening Settings, open action center, and then select the	Mouse, keyboart Bluetooth Mice, keyboards, pens, or audio and other kinds of Bluetooth devices	
Bluetooth & other devices		Bluetooth icon. Do the same to turn it off when you want. Get more info about bluetooth	2.4G Receiver Mick, keyboards, pens, or audo and other kinds of Bluetooth devices Wireless display or dock	
G Printers & scanners	Mouse, keyboard, & pen		BTS.0 Mouse Paired	
() Mouse	U VMware Virtual US8 Mouse	Related settings Devices and printers	Microsoft Scu + Everything else Daired Xbox controllers with Wireless Adapter, DUNA, and more	
Touchpad		Sound settings	Surface Type 0	
Typing	Audio く)) Microphone (High Definition Audio Device)	Display settings	Surface Type 0	
of Pen & Windows Ink		More Bluetooth options	Other devices	
AutoPlay	くい) Speakers (High Definition Audio Device)	Send or receive files via Bluetooth	S altSMi0 Pro 50 Paired	
Ö USB	Other devices	Have a question?	Q HUAWEI Mate	
	Generic Non-PnP Monitor	Get help		
Field a setting Dovices Image: Setting the set of the set o	Ald a were Add a device Note one your divice is turned on and discoverable: select a device Note one your divice is turned on and discoverable: select a device Note one your divice is turned on and discoverable: select a device Privil Server Other Dos To help grant is	derec below to		
Note:	Bluetooth Device Name: Pr	rint Server PIN Co	de: 0000	



Add a device is ready to go!

Get the Bluetooth Networking COM Number of the Print Server

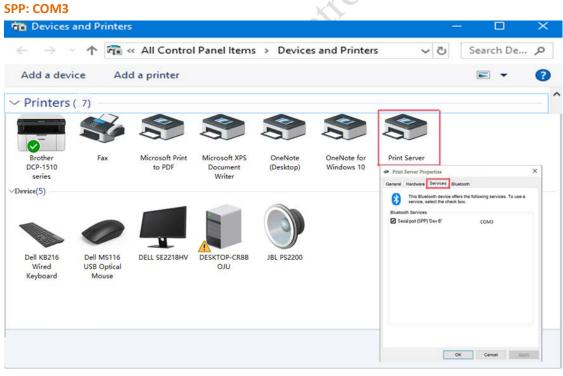
After the computer is paired with the Print Server, the Print Server has already been listed in the Other Devices area, as shown below:

Click the "Devices and Printers", to get the Bluetooth Networking COM Number.

LOYALTY -SECU

Settings		- a ×
A Home	Bluetooth & other devices	
Find a setting Devices	Add Bluetooth or other device	Related settings Devices and printers
Devices	Bluetooth	Sound settings
Bluetooth & other devices	On On	Display settings
금 Printers & scanners	Now discoverable as "DESKTOP-QL5885K"	More Bluetooth options
		Send or receive files via Bluetooth
() Mouse	Mouse, keyboard, & pen	
🖬 Touchpad	2.4G Receiver	Get help
Typing	BT5.0 Mouse Paired sen,	Crive feedback
🖗 Pen & Windows Ink	Microsoft Sculpt Comfort Mouse	
AutoPlay	U Paired	
Ö USB	Surface Type Cover	
	Other devices	
	Print Server Driver is unavailable	

Right-Click the "Print Server"-> "Print Server Properties" ---> Choose "Service" To get the Print Server Bluetooth SPP Port Number, as shown as below:



Choose the corresponding COM Number for the Printer

Choose "Brother DCP-1510 Series"-> "Printer Properties"-> Choose Port "COM3"->click "OK"

Add a devic	Brother DCP-1510 series Properties	×	ē.	📼 👻 🧃
Printers (Color Management Security General Sharing Ports	Version Information Advanced		
	Brother DCP-1510 series		8	1
Brother DCP-1510	Print to the following port(s). Documents will print to the checked port.	he first free	IneNote for Vindows 10	
series vevice(5)	Port Description Printer LPT1: Printer Port	^		
	LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port			
		P-1510 series		
Dell KB216 e Wired	COM4: Serial Port	*		
Keyboard	Add Port Delete Port	Configure Port		
	Enable bidirectional support			

Now all the settings are completed for Bluetooth printing in Windows OS computer, you can explore the printing via Bluetooth function now from computer to printer.

3.3.2. Bluetooth Printing via Android OS

Note:

 If it is 3 USB Ports Bluetooth Print Server, please kindly note that it only supports <u>USB1</u> with Bluetooth function as shown as below:

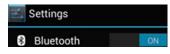
Print Server Config Tool LOVALTY - SECU Relayed to 10 Device Brid Device Name Printer Server Hardware Version Software Version 20210608.1 Running Time 20 Network Info MAC Info NAC Info NAC Info VIN Software Version USB Ports of Print Server USB Ports of Print Server USB 9100 USB2 9101 USB2 9102			
Ack prior during ray and fee Initial Code of allocity Minist Code of allocity Minist Code of allocity Device Tinfo Printer Server Hardware Version 20210608.1 Running Time 20 Mac Info [08:00:2700:01:92] WR Info I 46 Reserve I USB Ports of Print Server ISB 1 USB 2 9101		Print Server Config Tool	-
Device Name Printer Server Hardware Version WN0x Software Version 2021008.1 Running Time 20 Mac Info [08:00:27:00:01:92] WKF Info I 46 Reserve I USB Ports of Print Server USB1 9100 USB2 9101			Device Parameter Network Config Firmware Upgrade Reboot
Hardware Version WN0x Software Version 2021608.1 Running Time 20 Network Info I MAC Info 06:00:27:00:01:92 WFI Info I 4G Reserve I USB Ports of Print Server USB 1 9100 Support Bluetooth function only USB2 9101 USB3		Device Info	
Software Version 20210608.1 Running Time 20 Network Info MAC Info 108:00:27:00:01:92 WHI Info 1 45 Reserve 1 USB Ports of Print Server USB1 9100 USB2 9101 USB3		Device Name	Printer Server
Running Time 20 Network Info		Hardware Version	WN0x
Network Info 00:00:2700:01:92 WR Info I 45 Reserve I USB Ports of Print Server USB1 9100 Support Bluetooth function only USB2 9101 USB3 USB3		Software Version	20210608.1
MAC Info 06:00:27:00:01:92 WFI Info 46 Reserve USB Ports of Print Server USB 1 9100 Support Bluetooth function only USB2 9101 USB3		Running Time	20
WR Info I 46 Reserve I USB Ports of Print Server USB 1 USB 2 9101 USB 3		Network Info	
45 Reserve I USB Ports of Print Server USB1 9100 Support Bluetooth function only USB2 9101 USB3		MAC Info	08:00:27:00:01:92
USB Ports of Print Server USB 1 9100 USB2 9101 USB3		WiFi Info	1
US81 9100 Support Bluetooth function only US82 9101 US83	2	4G Reserve	1
9100		USB Ports of Print Server	
9100		USR1	
9101 USB3		0001	
U\$83		US82	9101

		US83	9102

 Please download "PrinterShare" from the APP Store or website: <u>http://www.printershare.com</u> into your Android smartphone first.

Before you start printing, you will need to make sure that Bluetooth is active on your Android device; also make sure that your Android device is paired with your printer. The first time you connect to your printer you will have to download a driver for it as well as document rendering

libraries (Office or PDF) if you choose to print documents. Make sure that Bluetooth is set to **On** in Android Settings.



Now that you are certain that Bluetooth is active, make sure that your Android device is paired with your printer in **Android Settings>Bluetooth**. You may need to input a pairing code for your printer.

Take your android device and open PrinterShare by tapping on its icon. If that is the first time you run PrinterShare, you will see a splash screen with two buttons: **Read More** (which will provide you with general information on PrinterShare's functionality) and **Continue.** Tap **Continue** once you are ready to proceed.

You will see the main PrinterShare screen with a grid of icons that allow you to access various items that can be printed. Below the grid of icons, you will see an icon of a printer with **Printer Not Selected** text and a **Select** button displayed beside it. To **select** your Bluetooth printer, press the Select button.



Now, tap the Nearby - Bluetooth button and wait for the app to detect your printer.



When your printer is detected, tap it. The app will then ask for your permission to download a driver for it which will require at least 4MB on your SD card.



Tap yes and you will be ready to print once the app finishes downloading and installing the driver pack.

Here's the demo setting:

Bluetooth Printer Name: Print Server Bluetooth Pin Code: 0000

LOYALTY -SECU

5:29 PM 🖸 🖸 🥥 ··· 8 (34 (36 4) 0 C	ده ب	орм а а а -		13434	9: GED	5:30 PM 🖸 🗬 📮 … ←	* 개 개 송 (BD)	5:33 PM 🔍 🔊 🕒	are Premium	* III III (* 180)
Bluetooth		Pair w	vith Print S	erver?		Bluetooth Bluetooth		Pictures	Contacts	31 Calendar
Device name 2497714455's Redmi Note 9 4G	5	0000 Usually 0000 or 12 PIN conta	ins letters or s			Print Server	14455's Redmi Note 9 4G	Web Pages	Messages	Call Log
OVAILABLE DEVICES O Print Server	0	You may also the other dev Allow acc history				AVAILABLE DEVICES	0	۲		
BLUETOOTH SETTINGS		Cancel		ОК		BLUETOOTH SETTINGS		Gmail	Google Drive	Documents
Additional settings	88	≡ ©	\$ \$	Q 18		Additional settings	>			
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3.5. How to Config WiFi Printing via Android OS Device?

Note: Only support Android OS printing via WiFi

For more information about WiFi Printing via Android OS, please refer to PrinterShare Online Support: http://www.printershare.com/help-mobile.sdf

Remarks: As for APP "PrinterShare" only supports to add single port for mobile printing, for 3 USB ports print server, it recommends to use APP "**PrintHand**"

4. FAQs

4.1. Check if the Print Server already Connected to the Ethernet

Successfully or Not?

Steps: Click "Start" menu, and input "Run", or use the WIN+R key combination to call the run window, enter "cmd" in the Run window, click "Ok"

💷 Run		×	
٨	Type the name of a program, folder, docume resource, and Windows will open it for you.	nt, or Internet	.,
Open:	cmd	~	
	OK Cancel	Browse	
nput PING	G xxx.xxx.xxx.xxx (print server's IP address)		
Notes: Th	ere must have a space between PING and the	IP address)	
	WS\system32\cmd.exe		
	ion-specific DNS Suffix . : AN adapter WLAN:		
Connect Link-lo IPv4 Ad Subnet Default	ion-specific DNS Suffix . : DHCP HOST cal IPv6 Address : fe80::4fd:6f7c:d dress : 192.168.0.104 Mask : 255.255.255.0 Gateway : 192.168.0.1	1033:4078%7	
	lailey ping 192.168.0.134		
Reply from Reply from Reply from	22.168.0.134 with 32 bytes of data: 192.168.0.134: bytes=32 time=23ms TTL=64 192.168.0.134: bytes=32 time=9ms TTL=64 192.168.0.134: bytes=32 time=10ms TTL=64 192.168.0.134: bytes=32 time=18ms TTL=64	it means IP address of print serve Connected	r
Packet Approximat	stics for 192.168.0.134: s: Sent = 4, Received = 4, Lost = 0 (0% loss) e round trip times in milli-seconds: m = 9ms, Maximum = 23ms, Average = 15ms		

:\Users\Hailev>

4.2. How to Check if Your USB Printer supports RAW Protocol or Not?

Manage your dev	ice	Brother DCP-1510 series Properties	Configure Standard TCP/IP Port Monitor X
Printer status: Defaul		Color Management Security Device Settings General Sharing Ports 2 Advanced	Port Settings
Open print queue	Set as default	Brother DCP-1510 series	Port Name: 192.168.0.105.1 Printer Name or IP Address: 192.168.0.105
Print a test page Run the troubleshooter		Print to the following port(s). Documents will print to the first free checked port.	Protocol Raw C LPR
Printer properties Printing preferences	0	Port Description Printer ^ 192.16 Standard TCP/IP Port Brother DCP-1510 series ^ 192.16 Standard TCP/IP Port	Raw Settings Port Number: 9100
Hardware properties		□ PoRTe_ local Port Microsoft XPS Document Wri □ PoRTe_ local Port 发送至 OneNote 2010, OneN □ Micros App Monitor OneNote for Windows 10 □ Destto Adobe PDF	CPR Settings Clueue Name
Get help		Docum., Adobe PDF Adobe PDF 0	SNMP Status Enabled
		Add Port Delete Port Configure Port	Community Name. public
		Enable bidirectional support	SNMP Device Index

Confirm the printer's default data format" RAW" via "Printer Properties"

4.3. How to Confirm the Print Issue of Document Pending?

Right-Click the target Printer, Choose" See what's printing", Click the "Printer", Check whether disable the "Use Printer Offline" option as shown as below:

→ Devices and Printer ← → ↑ ↑ ↑	Hardware and Sound > Devices a	nd Printers 🗸 Ö	Search Devices	and P, P							
Add a device Ad	ld a printer See what's printing	Print server properties		• 6							
3	See what's printing Set as default printer Printing preferences	8			¢	other HL-L2340D Printer C Document View	_				- 🗆 X
Brother HL-L23400 series	Printer properties Create shortcut	Int Microsoft XPS Document Write				t As Default Printer	Status	Owner	Pages	Size	Submitted
Printer	Remove device Troubleshoot					t As Default Printer inting Preferences					
	Properties					aring					
Sroth	er HL-L2340D series Printer Stat Mod		are Driver		~	e Printer Offline 2	Disable	the "Use Pri	nter Offline	•"	
5		y: Printer	DS PINE		58	operties 0				_	

Note: If there are showing some documents are in the queue, please delete all of them.

Printer Document View				-
Document Name	Status	Owner	Pages	Size
Microsoft Word - Document I Have No Super Feelings About.docx	Spooling	wjgle	1	9.28
Microsoft Word - Super Stupid Document.docx	Spooling	wjgle	1	9.24
Microsoft Word - Super Important Document.docx	Spooling	wjgle	1	9.24
<				>
3 document(s) in queue				

4.4. Why don't We Suggest Using DHCP to Obtain an IP Address?

It is easy to forget the IP address and may assign a different IP address for the print server if we use DHCP to obtain an IP address for the print server.

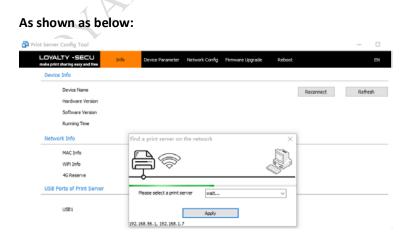
4.5. Why can't the Print Server Config Tool Recognize Print

Server via Windows OS?

After being connected to the computer, the print server will automatically power on and start. The entire startup process takes about 20 seconds, then the print server config tool will display a USB sign in the lower-left corner, indicating that the config tool has been identified as the print server as shown as below:

OVALTY -SECU	Device Parameter	Network Config P	mware Upgrade	Rebect		
Device Info						
Device Name				Recorvect	Keftesh	
Hardware Version				the start of the start of the	the constraint of	
Software Version						
Running Time						
Network Info						
MAC Info						
Will's Serfa						
4G Reserve						
US8 Ports of Print Server						
US81						2
U582						Y
USB3						

4.6. Why the WiFi Print Server cannot be connected via Network Connection Method?



Solution 1: Long Press the "Reset" Button of the print server for 5 seconds.Solution 2: Make Sure the Wired Network Config Default Mode is "Obtain an IP Addr via DHCP"

Via USB Cable

nake print sharing easy and free	Info	Device Parameter	Network Config	Firmware Upgrade	Reboot	1
Wired/WiFi Network Confi	9					
1. Wred Network Con	40					
Obtain an IP	Address	2. Obtain an IP Add	fr via DHCP	Ŷ		
1P Addr						
Subnet Mask						
Gateway						
DNS Addr				3.	Save	

4.7. Check Whether Disabled the "Enable bidirectional support"

As shown as below:	:5	•. C)*	со., х
General Sharing Ports Ad	vanced Color Management	Security 配置	
HP LaserJet 1020			_
<u>P</u> rint to the following port(s checked port. Port	s). Documents will print to Description	the first free Printer	^
COM4: FILE: WSD-3be1f116-096d	Serial Port Print to File WSD Port		
192.168.1.128 PORTPROMPT:	Standard TCP/IP Port	HP LaserJet 1020 Microsoft XPS Docu	
	Local Port	Microsoft AF5 Docu	v
<		>	
Add Por <u>t</u>	<u>D</u> elete Port	<u>C</u> onfigure Port	
Enable bidirectional supp	oort 1 Cancle this	option	
	OK Cance	l <u>A</u> pply	Help

Option or Not

4.8. Check Whether the Print Server Scanned the Complete

WiFi Internet Name

As shown as below:

Eg: When need to connect the print server to **WiFi Internet "Vodafone Superior"**, because there has a space between "Vodafone" and "Superior", after clicking the "**Scan**" button, the print server only gets the WiFi internet name before the space (**Vodafone**), so the user needs to fill in the complete WiFi Internet name "Vodafone Superior" manually, as below image shows:

hoose Available WiFi Internet	Vodafone 🔸 Vodafone Superior 🔽	Scan
WIFI Password	Vodafone Camera 	13
Obtain an IP Address	Vodafone-Wifi	
IP Addr	192,168.1.20	
Subnet Mask	255.255.255.0	
Gateway	192.168.1.1	
DNS Addr	192.168.1.1	Save

Remarks: Only the WiFi internet name and password is correct, after being assigned an IP address for the WiFi print server, this device can be found in your LAN internet.