

# Brother

Managing Your Brother Printers with SOTI Connect

User's Guide (Agent connection) Version 1.2

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# 1. Introduction

This Software User's Guide is intended for IT administrators who want to install and configure the software for connecting Brother printers to SOTI Connect.

IT administrators are expected to understand how to use Microsoft Internet Information Services (IIS).

# 2. Introduction

## 2.1 System Configuration

There are two types of SOTI Connect system configurations: cloud-based and on premise-based **Cloud-based** 



#### On premise-based



### 2.2 Network port Configuration



# 2.3 Definition of Terms

Terms	Description
MDM	Abbreviation for Mobile Device Management
	Refers to a management system for mobile devices (e.g. smartphones and peripheral
	equipment)
SOTI Connect	SOTI Connect is an IoT solution built for business that provides complete lifecycle
	management of IoT devices within an organization
SOTI Protocol Adapter	Software provided by SOTI to connect between SOTI Connect and the printer via
	Brother Device Conductor
IIS	Abbreviation for Microsoft Internet Information Services (IIS)
	A standard Web server (application server) service on Windows
.NET Core Runtime	An execution environment provided by Microsoft
	Brother Device Conductor starts up on this execution environment
DB	Abbreviation for DataBase
	This software uses SQL Server.
	Brother Device Conductor uses this DataBase for the data management
Brother Device Conductor	Brother Device Conductor is a Web app. Tools for performing various settings
	required for the operation of Brother Device Conductor are included.

	Brother Device Conductor connects between SOTI Protocol Adapter and the printer.			
Brother Device Conductor	Software to connect between Brother Device Conductor and the printer.			
Agent	*Brother Device Conductor Agent doesn't have UI. It works as the Windows Service.			
	*This software regularly makes HTTPS communications with Brother Device			
	Conductor (Web app) to confirm Action.			

# 2.4 Supported Printers

Model	Firmware version	Supported Interface
RJ-2050		
RJ-2140	0.50 or later	Wireless LAN
RJ-2150		
TD-2120N	0.50	
TD-2130N	0.50 or later	Wired LAN, Wireless LAN

# 2.5 Specifications

Software	
Brother	Supported OS
Device Conductor	•Windows 10 (64bit) / Server 2016
	*Pursuant to the supported OS of coexisting SOTI software (Protocol Adapter)
	System requirements
	Net Core Version 3.1 (Long Term Support)
	<ul> <li>Microsoft SQL Server 2017 or Microsoft SQL Server 2016</li> </ul>
	*1: Support Express edition too.
	*2: Operation of SQL Server installed externally is not supported.
	·IIS
	Supported language
	English
	French (Canada)
Brother	Supported OS
Device Conductor Agent	•Windows 7 SP1(32/64bit) / 8.1(32/64bit)/ 10(32/64bit) / Server 2016
	System requirements
	.NET Framework Ver. 4.7.2 or later
	Supported language
	English
	French
	German
	Spanish
	Portuguese
	Italian
	Polish

### 2.6 What Brother Provides

Brother provides the following:

No.	Item	Description		
1	Software User's Guide	This document		
2	DeviceConductorInstaller.msi	Installer for Brother Device Conductor		
3	DeviceConductor.mdf	For preparing a table for maintaining various types of data communicated		
	DeviceConductor_log.ldf	with this IoT Framework system on the SQL Server.		
		* These files are specified in the installer for Brother Device Conductor.		
		* Place these files it in the same hierarchy as		
		DeviceConductorInstaller.msi.		
		This installer refers them.		
4	DeviceConductorAgent.msi	Installer for Brother Device Conductor Agent		
5	labelcc.exe	Transfer tool for transferring various files to the printer.		
	brosnmp.dll			
	*These must be in the same			
	directory with labelcc.exe.			

\*Please obtain software for SOTI Connect and SOTI Protocol Adapter from sales agencies of SOTI Connect.

# 3. Installation

[Procedures for installation]

#### Cloud-based



\*On premise-based is the same procedures for installation as Cloud-based

This User's Guide describes procedures for installation of software except SOTI Connect and SOTI Protocol Adapter. In either cloud-based case or on premise-based case, the procedures for installation/configuration are the same. \*For procedures for installation and configuration of SOTI Connect and SOTI Protocol Adapter, consult your sales

agency of SOTI Connect.

### \*Log in to Windows OS as a user with Administrator privileges, and perform various installations and settings.

## 3.1 Configuration for Internet Information Services (IIS)

(1) Click [Windows Settings]-[Apps]-[Programs and Features].

(2) Click "Turn Windows features on or off" and place the check box of "Internet Information Services" ON.



### 3.2 Installation of .NET Core Runtime

(1) Download .NET Core Runtime 3.1.x Hosting Bundle from the website.





(2) Install the latest version of .NET Core Runtime 3.1.x

\*If you have done this before "3.1 Configuration for Internet Information Services (IIS)", please refer to FAQ No.2.

#### 3.3 Installation of Microsoft SQL Server

(1) Download Microsoft SQL Server from the website, and click on the execution file to start the installer.

\*Please refer to the following for supported Microsoft SQL Server version.

2.4 Supported OS/System Environment/Database/Language

#### Click "Basic."



Complete the installation.

#### 3.4 Installation of Device Conductor

(1) Start "DeviceConductorInstaller.msi" and install Device Conductor.

Confirm End-User License Agreement.



#### (2) Confirm preparation of installation.

Brother Device Conductor Installation				_		×
Preparation (2/8)						
The installer will set up Brother Device Cond	ductor and	the fol	lowing so	ftware:		
- Server certificate						
- Internet Information Service (IIS)						
- Microsoft SQL Server						
Checking the required software						
- Internet Information Service (IIS)	ОК					
- Microsoft SQL Server	ОК					
NET Core Hosting Bundle	OK					
	Ba	ack	Ne	xt	Cano	el

#### (3) Setup Server Certificate.



Please select one from followings:

·Import server certificate & CA

Please prepare a server certificate &CA certificate issued from a third-party organization.

->Go To (4)

#### ·Create self-signed certificate & self-signed CA

\*If you select this item, please install "OpenSSL-Win64".

#### ->Go To (6. FAQ & Tips)

#### (4) Import Server Certificate.

🛃 Brother Device Conductor Setup — 🗆 🗙	
Import certificates(4/8) Please select a folder that contains the certificates that need to be installed on this	Don't include any file except certificate in folder. The chain structure must be established between the
server. Supported extensions:	certificate and the Root certificate in the same folder.
Server certificate (.PFX, .P12, .DER)     Intermediate CA certificate (.pem, .crt, .cert)	If these are not supported, the error will be displayed
C:¥temp	when you click the Next button.
Password for server certificate	
Please select a root CA certificate that need to be installed on dients. Supported extensions: • Root CA certificate (.PEM)	
C:¥temp¥cacert_brDeviceConductor.pem	
Back Next Cancel	

#### (5) Setup Internet Information Service (IIS).

记 Brother Device Conductor Installation	_		×
Set up the Internet Information Service (IIS) (5/8)			
Specify the IIS Application Pool and Site name.			
BrotherDeviceConductor			
You will need to configure this Application Pool and Site in the IIS late	r.		
Back Ne	xt	Can	cel

#### (6) Configure SQL Server.

d Brother Device Conductor Installation	-		$\times$
Set up the SQL Server (6/8)			
Select the folder containing the SQL database files (MDF and LDF):			
C:¥temp Select the SQL Server version:			
SQL Server 2017 (MSSQLSERVER)			
Back	ext	Cano	el

\*Pleaes select folder where DeviceConductor.mdf and DeviceConductor\_log.ldf are stored.

\*Place these files it in the same hierarchy as DeviceConductorInstaller.msi. This installer refers them.

#### (7) Add a rule in Windows Firewall.

🛃 Brother Device	Conductor Installation	_		×		
Set up Windows Firewall (7/8)						
Specify the port f	or Brother Device Conductor communication in \	Windows Firew	all.			
Port number:	49500					
Port number: 149500 The default port number is 49500. If this port is already in use, change it to an available one.						
	Back	Next	Cano	:el		

\*Default port number is "49500". If necesarry, please change it.

\* Make sure that there is no site already started with the same port in IIS.

If it exists, Device Conductor will not start after installation.

(8) Confirm install Device Conductor.

Brother Device Conductor Installation -		×
Complete the installation (8/8)		
- To complete the installation, click the Install button.		
- To cancel the installation, click the Cancel button.		
NOTE		
If your security software identifies the Brother Device Conductor as a virus, change your security software's settings, and then try again.		
Back	Can	cel

\*If click "Install" button and the following dialog is displayed, please check No.3 in "6 FAQ & Tips".



#### (9) Device Conductor Setup Complete.



### 3.5 Confirm Connection of Device Conductor with IIS and SQL Server

#### Select [Brother] - [Device Conductor Setting Tool] from the Start Menu to start the tool.

Please check that "Status of Device Conductor" is Running.

Brother Device Conductor Setting To	ol							– 🗆 X
Network <	Client	Devices			Search	n list	Q	Monitor Setting
Status of Device Conductor	No Client	Last Update Mo	odel Serial Number	Firmware Ver.	IP (Wireless)	IP (Wired) Location	n Contact	ID:-
Running	No circite							Client Type:-
Port Number:								Edit
49500								Status:Ready
DB Server Path:								Result:-
localhost¥SQLEXPRESS								Polling Interval:
Basic Authentication for Network								Check Action
Communication:								5 🚖 sec. (5 - 60)
User ID:								
72cc83a737f2460b9381b0ddb56 4d248								
Password:								
2a91c54e1ea34348b587a694e5d 🖸								
Refresh								
The client:								
Get client setup files.								
Firewall:								
Need to allow access on the firewall to receive device information from the								
client								
Firewall Settings								
Information:								
End User License Agreements								
Version								
License			🗘 Reload					

#### <How to confirm this validation>

#### •Start IIS Manager.

	iii ≻						🚥 🖂 🟠 I
ile View Help							
nnections	<b>A</b> <sup>2</sup>						Actions
	•						Manage Server
	Filter	• 🐨 Go	- G Show All	Group by: Area	- 22 -		🗢 Restart
	IIS					^	Start
	<u></u>	A		28	<b>4</b> 04	2	Stop     View Application Pools
	Authentication	Compression	Default	Directory	Error Pages	Handler	View Sites
			Document	Browsing		Mappings	Get New Web Platform
			1	4	: 💽	8	Components
	HTTP Response	Logging	MIME Types	Modules	14	Request Filtering	😯 Help

· Check if clicking "Browse" will execute Brother Device Conductor.

		ilaik-						
File View Help								
Connections	0						Actions	
Application Pools	Filten	• 77 Go	- 🔂 Show All	Group by: Area	• <u>II</u> •		Edit Permissions Edit Site	
Sites     General Stees     General Stees     General Web Site	IIS Authentication	Compression	Default	Directory Browsing	Error Pages	Handler Mappings	Bindings Basic Settings View Applications View Virtual Directori	в
	HTTP Response Headers SSL Settings	Logging	MIME Types	Modules	Output Caching	Request Filtering	Manage Website  Restart  Start  Stop  Browse Website  Rowse '149500 (https://	0

\*If necessary according to your operating environment, please customize the setting of the Brother Device Conductor site on IIS Manager after install or repair by installer of Device Conductor. e.g. HTTP response header etc.

If it's succeeded, the following message is displayed on browser.



#### 3.6 Setup printer to connect via Device Conductor Agent.

#### 3.6.1 Operate Brother Device Conductor

(1)Select [Brother] - [Device Conductor Setting Tool] from the Start Menu to start the tool.

Brother Device Conductor Setting To	ol									- 🗆 X
Network <	Client	Devices				Sear	ch in list		Q,	Monitor Setting
Status of Device Conductor <ul> <li>Running</li> </ul>	No Client	Last Update	Model	Serial Number	Firmware Ver.	IP (Wireless	) IP (Wired)	Location	Contact	ID:- Client Type:-
Port Number: 49500										Edit Status:Ready
DB Server Path:										Result:- Polling Interval:
Basic Authentication for Network Communication:										Check Action 5 🚔 sec. (5 - 60)
User ID: 72cc83a737f2460b9381b0ddb56 4d248										
Password: 2a91c54e1ea34348b587a694e5d 47381										
Refresh										
The client: Get client setup files.										
Firewall: Need to allow access on the firewall to receive device information from the client										
Firewall Settings										
Information: End User License Agreements										
Version				🗘 Reload						

(2)Click "Get client setup files".

Save a zip file which contains the following files:

DeviceConductorAgentSetting.json	Used when installing Device Conductor Agent
cacert.pem or	Need to connect from Device Conductor Agent to
your imported CA certificate	Device Conductor.

[Notice]

If you select "Create self-signed certificate & self-signed CA" in the chapter as "[3.4Installation of Device Conductor]-[(3)Setup Server Certificate]", cacert.pem is stored in this zip file.

If you select "Import server certificate & CA" in this chapter, your imported CA certificate is stored in this zip file.

\*If you use public certificate, please add the root certificate file to the same folder and use to setup Brother Device Conductor Agent.

\_\_\_\_\_

ActivateMDMConnection.bin

InactivateMDMConnection.bin

 $\rightarrow$  These files are not necessary to do the agent connection in this User's Guide.

# 3.6.2 Operate Brother Device Conductor Agent

(1) Start DeviceConductorAgent.msi (Device Conductor Agent Installer).

Brother Device Conductor Agent Installation -		×			
Thank you for choosing Brother Device Conductor Agent (1/5)					
To start the installation, read and accept the licence agreement.					
End-User License Agreement MPORTANT - PLEASE READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you and Brother Industries, Ltd. ("Brother", "we" or "our"), which governs your use of the Brother software "Device Conductor" and/or "Device Conductor Agent" (including associated materials or documents) provided with this EULA (collectively, "SOFTWARE"). If you agree to be legally bound by the terms and conditions of this EULA, you may use the SOFTWARE in accordance with the terms and conditions of this EULA. If you do not agree to the terms and conditions of this EULA, you obtain no license to the SOFTWARE. In such case, you may not use the SOFTWARE. ■ Terms and Conditions. 1. Ownership. All right, title and interest in and to the SOFTWARE (including all copyright and other intellectual property rights therein) are owned by Brother or its suppliers. The SOFTWARE is licensed but not sold.					
Back Accept	Cance	èl			

(2) Click "Change Folder" and select "DeviceConductorAgentSetting.json".

🛃 Brother Device Conductor Agent Installation	-		$\times$
Import the Device Conductor settings (2/5)			
Select the folder containing the Device Conductor settings.			
C:¥temp¥DeviceConductorAgentSetting.json Change Folder			
Back Ne	ext	Cano	el

#### (3) Click "..." and select "cacert.pem" or "your imported CA certificate".

妃 Brother Device Conductor Agent Installation —	- 🗆 X
Set up a certificate (3/5)	
Install root CA certificate that is needed to validate server certificate on	this PC.
Root Certificate Authority file	
C:¥temp¥cacert.pem	
○ Don't validate server certificate	
Back Next	Cancel

### (4) Add a rule in Windows Firewall.

Brother Device Conductor Agent Installation       —       ×         Set up Windows Firewall (4/5)						
Specify the port for Brother Device Conductor Agent communication in Windows Firewall.	🕼 Brother Device Con	nductor Agent Installa	ation	_		$\times$
Firewall.	Set up Windows F	irewall (4/5)				
Port number: 49501		other Device Conductor	Agent communica	ation in Windows		
r	Port number:	49501				
<u>B</u> ack <u>N</u> ext Cancel			<u>B</u> ack	Next	Cance	el

\*Default port number is "49501". If necesarry, please change it.

\*If you use the public certificate, please add the root certificate as well.

#### (5) Click "Install".



#### (6) Install Complete



#### 3.6.3 Configure the device and network settings for printer

Configure the network settings for printer using "Printer Setting Tool".

Please download "Printer Setting Tool".

https://support.brother.com/g/b/index.aspx?noautojudge=true

The printer must be connected to the same network as the Device Conductor via access point by Infrastructure. <Note>

Recommend to set "Auto Sleep Delay(Minutes)" by "0".

Because when the printer moves to "Auto Sleep mode", it doesn't support SOTI Connect.

# 4. Brother Device Conductor Functions



No.	ltem	Description
1	Device Conductor	Displays the operation status of Device Conductor.
	Status	
2	Port Number:	This port is used by Device Conductor.
3	Database Server	The connection information to access the SQL Server.
	Path:	
4	Basic	This is authentication information.
	Authentication for	User ID and Password are used to connect between Brother Device Conductor and
	Network	SOTI connect.
	Communication:	*Please refer manual of SOTI connect to set User ID and Password on SOTI Connect.
5	Client:	Generate files to install Device Conductor Agent and the related set of files are
		created in zip form. The contents of these files are as follows.
		(1) DeviceConductorInfo.json
		ightarrow Used when installing Device Conductor Agent
		(2) cacert.pem or your imported CA certificate.
		→CA certificate for connecting to Device Conductor.

		Need to connect from Device Conductor Agent to Device Conductor.				
		[Notice]				
		If you select "Create self-signed certificate & self-signed CA" in the chapter as				
		"[3.4Installation of Device Conductor]-[(3)Setup Server Certificate]", cacert.pem is				
		stored in this zip file.				
		If you select "Import server certificate & CA" in this chapter, your imported CA				
		certificate is stored in this zip file.				
		(3) ActivateMDMConnection.bin				
		(4) InactivateMDMConnection.bin				
		$\rightarrow$ These files are not used for agent connection in this User's Guide.				
6	Information:	By pressing the information display button, a dialog showing the following information is				
		displayed:				
		End User License Agreements     EULA				
		Version     ···Software Version				
		License     Various OSS licenses				
$\overline{\mathcal{O}}$	Client	This displays a list of agents that are accessed.				
8	Devices	By selecting an item of the Client List, a list of devices linked to the client is displayed.				
9	Monitor Settings	Monitor the settings of agent displayed on $\overline{\mathcal{O}}$ "Client".				
		[Search Device]				
		Search for target Printers by Broadcast or Unicast, and add to manage them.				
		Discover specific devices   ×				
		Broadcast				
		⊖ Unicast				
		Specified address:				
		0.0.0.0				
		Address range:				
		0.0.0				
		OK Cancel				
		[Edit / Apply]				
		Change the setting for periodic processing performed by Device Conductor Agent and				
		execution interval.				
		Click to change from [Edit]button to [Apply] button.				
		When change the following items and click [Apply] button, the changes will be				
		reflected.				
		This is the name of Agent displayed on ⑦"Client". The default is the name of PC on				
		which the Agent is installed.				
		[Check Action] Interval to perform confirmation to printer				
		[Search] Interval to execute periodic search process to add target printers				
		[Check Status] Interval for periodically acquiring and updating each status of managed				

		Printers
		[Method] Search method for periodic search processing that adds target printers
		[Timeout] Time-out setting to inquire about periodic search processing
		[Loop] Number of executions of the above periodic search process (Broadcast search
		only)
10	Reload	This button updates the Display view

# 5. Managing Brother Printer with SOTI Connect

# 5.1 Printer Settings

Group	Item	RJ-2050 RJ-2140 RJ-2150 Unit / <u>Settable item</u>	TD-2120N TD-2130N Unit / <u>Settable item</u>			
	Manufacture		-			
	Model		-			
	Firmware Version		-			
	Serial Number		-			
	Font Version		-			
	Memory Size	Ву	/te			
General	Printing Method		-			
	Printing Resolution	d	рі			
	Contact	<u>free</u> (upper lin	nit 255 characters)			
	Location	<u>free</u> (upper lin	nit 255 characters)			
	Paper Size Name		-			
	Total Templates Count	-				
	Total Databases Count	-				
During	Device Status	-				
Device	Total Print Length	m				
Status	Total Print Count	-				
		-ESC/P				
		<u>•Raster</u>				
	Command Mode	-P-touch Template				
		-CPCL Emulation				
<b>a</b> <i>i</i>		CPCL LinePrint Emulation				
System	Auto Power OFF	RJ-2000 Series:				
Settings	(minutes)	<u>0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20,</u>	<u>0, 10, 20, 30, 40, 50, 60</u>			
		<u>30, 40, 50, 60</u>				
	Print Speed	RJ-2000 Series:	n/a			
	(inch/sec)	<u>3, 4, 5, 6</u>				
	Print Density (%)	n	/a			
General Network	IPv6 Usage	<u>true / false</u>	n/a			
	Status(Wired LAN)	n/a	-			
Wired	Node Type	n/a	-			
LAN	Node Name	n/a	-			
	MAC Address	n/a	-			

		n/a	<u>•AUTO</u>			
			-BOOTP			
	IPv4: Boot Method		-DHCP			
			<u>•RARP</u>			
			<u>• STATIC</u>			
	IPv4: IP Address	n/a	<u>free (***.***.***.***)</u>			
	IPv4: Subnet Mask	n/a	<u>free (***.***.***.***)</u>			
	IPv4: Gateway	n/a	<u>free (***.***.***.***)</u>			
	IPv4: DNS Server	n/a	<u>•AUTO</u>			
	Method		-STATIC			
	IPv4: Primary DNS	n/a	free (***.***.***.***)			
	Server IP Address		<u>nee ( )</u>			
	IPv4: Secondary DNS	n/a	free (***.***.***.***)			
	Server IP Address		<u>iree ( )</u>			
	Status (Wireless LAN)		-			
	Signal Strength					
	Node Type		-			
	Node Name					
	MAC Address		-			
	Communication Mode	<u>• Infrastructure</u> <u>• Ad-Hoc-WiFi</u>				
	SSID	<u>free</u> (upper limi				
	Channel		Max: 14			
		[Infrastr				
		· Open System				
		- Shared Key				
	Authentication Method	•WPA/WPA2-PSK				
Wireless		[Ad-Hoc-WiFi]				
LAN*		- Open System				
			[Open System] None or WEP			
		[Open System] None or WEP	[Shared Key] WEP			
	Encryption Mode	[Shared Key] WEP	[WPA2-PSK] AES			
		[WPA/WPA2-PSK] TKIP+AES	[Other Authentication Method]			
		or <u>AES</u>	TKIP or AES			
	WEP Key	<u>free</u> (upper limit 13 characters)				
	Network Key	<u>free</u> (upper limit 63 characters)				
			AUTO			
		-BOOTP				
	IPv4: Boot Method					
		-DHCP -RARP				
		•STATIC				
	J					

	IPv4: IP Address	<u>free (***.***.***)</u>		
	IPv4: Subnet Mask	free (***.***.***)		
	IPv4: Gateway	free (***.***.***)		
	IPv4: DNS Server	<u>•Al</u>	<u>0TU</u>	
	Method	<u>•ST/</u>	ATIC	
	IPv4: Primary DNS	free (***.*	*** *** ***)	
	Server IP Address		<u> )</u>	
	IPv4: Secondary DNS	froo (*** *	*** ***	
	Server IP Address		***.***.***)	
	IPv6: Static Address	free(****:****:****:****:****:	n/a	
	IPV6. Static Address	**** **** ****)	n/a	
	IPv6: Enable Static	true / false	n/a	
	Address	<u>true / taise</u>	II/a	
	IPv6: Primary DNS	free(****:****:****:****:****:	n/a	
	Server IP Address	<u>**** : **** : ****)</u>	11/a	
	IPv6: Secondary DNS	free(****:****:****:****:****:	n/a	
	Server IP Address	<u>**** : **** : ****)</u>	11/a	
	IPv6: Address List	-	n/a	
		• No	one	
	Paper Type	<u>•G</u>	iap	
Media		• <u>•</u> M	<u>ark</u>	
	Width	n	la	
	Length	n/a		

### Printer functions

Action name	Description
Print Test Page	
	ALL Reset
	Resets all printer settings to factory settings.
	Memory Reset
	The templates, databases and print log stored in the printer are reset.
Factory Poset	<ul> <li>Printer Setting Reset (RJ-2000 series only supported)</li> </ul>
Factory Reset	Resets the settings that can be changed in the Device Settings tool to factory settings.
	The templates, databases and print log stored in the printer are not reset.
	Network Reset
	Resets the settings that can be changed in the Networking Settings tool to factory
	settings. The templates, databases and print log stored in the printer are not reset.
Reboot	
Shutdown	

## 5.2 Printer Status Notifications / Error Log

Name	Description	Туре
Printer System Error	Internal error	Critical
Buffer Full Error	Data transfer error	
Communication Error	Data transfer error	
"File Install" Failed	File installation error	
Apply Client Settings Failed	Client setting error	
"Print Test Page" Failed	Test Page error	] 
"Factory Reset" Failed	Factory Reset error	Error
"Reboot" Failed	Reboot error	
"Shutdown" Failed	Shutdown error	
"Search Device" Failed	Search Device error	
"Check Status" Failed	Check Status error	
End of Media	Install new media	
New Device	New printer found	
Status Update	Printer Status updated	
Cover Open	Media Cover open	
"File Install" Accepted	Printer files updated	
Apply Client Settings Accepted	Client settings applied	
Apply Device Settings Accepted	Printer settings applied	Alert
"Print Test Page" Accepted	Test page printed	
"Factory Reset" Accepted	Printer settings reset to the factory settings	
"Reboot" Accepted	Printer rebooted	
"Shutdown" Accepted	Printer shut down	
"Search" Accepted	Search has started	
"Check Status" Accepted	Check Status has started	

# 5.3 Configuration using blf files

We recommend using the software provided with the printer to create BLF files.

For more information about the software provided with your printer, see its User's Guide on the Brother Support website at support.brother.com.

Setting item	File format	Tool used for blf file creation
Firmware*1	blf	Contact your Brother sales office
P-touch Template	blf	After creating a template (lbx file) in P-touch Editor,
P-touch Template	blf	save as a file in blf format using P-touch Transfer
+ Database		Manager.
Communication	blf	Save the command file (bin format) with the
settings		communication settings tool.
		Start up P-touch Transfer Manager. After dragging

		and dropping the bin file on the layout, save the file in
		blf format.
Device settings	blf	Save the command file (bin format) with the Device
		Setting Tool.
		Start up P-touch Transfer Manager. After dragging
		and dropping the bin file on the layout, save the file in
		blf format.
Custom paper	blf	Save the command file (bin format) with the paper
size*2		size setup tool.
		Start up P-touch Transfer Manager. After dragging
		and dropping the bin file on the layout, save the file in
		blf format.
Font	blf	Save the command file (bin format) with Font
		Manager tool.
		Start up P-touch Transfer Manager. After dragging
		and dropping the bin file on the layout, save the file in
		blf format.

\*Create a BLF file for each model, even if the models belong to the same product series/type.

- \*1 TD-2120N and TD-2130N aren't supported.
- \*2 TD series and RJ series are applicable.

### <Example 1> How to create blf file for P-touch Template

a. Start P-touch Editor, and create a layout.



b. From P-touch Editor menu [File] - [Template transfer] - [Transfer...], start P-touch Transfer Manager. Click the [Save transfer file] button, and save the file in blf form.

PC (Brother RJ-4 File Edit View	4230B)\Configui Tool Help	rations - P-to	ouch Transfer Man	ager				- 0	×
Transfer	- Backup	Open	Search	Display Style	Printer: All Printers	~			
P-touch Library		^ Tra	nsfer Name	Size	Туре	Date	Key Assign	Name	
All Contents	lts er		test	1KB	Layout	5/8/2018 2:22:05 PM	1	test.lbx	
For Help, press F1	rations	~ <							>

#### <Example 2> how to create blf file for custom paper size

a. Launch the custom paper setting tool.

After creating a custom paper size, click the [Options] button, select "Save in Command File...," and save the command file (bin form).

Paper Size Setup		×
Currently Registered Paper Sizes:		
RD 2.2	Width:	1.97 "
RD 4" RD 1.9" x 3.3"	Length:	3.35 "
RD 2.3" x 3.6" RD 3.1" x 4.5" RD 4" x 2" RD 4" x 3" RD 4" x 4" RD 4" x 6"	Energy Rank:	7
	New	
	Ealt	
	Delete	
	Paper list	
	Import	
	Export	
Option +	Exit	
Register Paper Size With Printer		
Save in Command File		

b. Start P-touch Transfer Manager. Drag and drop the bin file onto the layout.

Click the [Save Transfer File] button, and save the file in blf form.

PC (Brother RJ-21 Elle Edit View I	50)¥Configu ool <u>H</u> elp	ration	s - P-touc	h Transfer Ma	nager	-	-	Thursday 1		
Save Transfer File	Backup		Open	Search	Display		Printer: All Printe	rs 🔹		
Transfer Manager  C (Brother RJ-2150)  Configurations			ransfer Na bsr16act			Type Comm	and	Date 2018/04/11 11:3	Key Assign	Name bsr16
Backups	J-4230B)	•	1			m				,
For Help, press F1		-							NU	м

# 6 FAQ & Tips

# FAQ

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No.	Chapter	FAQ
1		<trouble>"SOTI Protocol Adapter" stops.</trouble>
		<solution>Recommendation:</solution>
		Don't set sleep time and turn on power always on PC that "Brother Device
		Conductor" and "SOTI Protocol Adapter" are installed on.
		*If set sleep time on Windows OS and Windows OS goes to sleep, "SOTI
		Protocol Adapter" will stop. When Windows OS returns from sleep to normal,
		"SOTI Protocol Adapter" will restart automatically.
2	3.4	<trouble>The following error is displayed.</trouble>
	Installation of Device	"Cannot edit the Site settings of the Internet Information Service (IIS).
	Conductor	Check your IIS settings.#3"
		<cause></cause>
		This error is displayed when doing in the following order.
		(1) Install .Net core hosting & bundle
		(2) Set IIS.
		(3) Install Device Conductor.
		<solution></solution>
		Please select A or B.
		Α.
		(1) Uninstall and re-install .Net core hosting & bundle.
		(2) Install Device Conductor.
		В.
		(1) Repair .Net core hosting & bundle.
		(2) Install Device Conductor.
3		<trouble> Brother Device Conductor installer displays the message as "The</trouble>
		installer cannot attach Device Conductor database file in SQL server. In
		detail, please look FAQ regarding as SQL server in the setup guide."
		And it stopped.
		<solution> If you install SSMS (SQL Server Management Studio) and it is</solution>
		running, please stop it during installation.
4		<trouble> When execute repair install and renew CA certificate, can't access</trouble>
		between Device Conductor and Device Conductor Agent.
		<solution> The following steps are required because CA certificate is renewed.</solution>
		[1] Click [client setup files.] button on "The Client:" from Device Conductor
		Setting Tool.
		[2] And get "cacert.pem" and set it to printer.
		Please refer the following chapters as the detail procedure.
		- 3.6 Setup printer to connect via Device Conductor Agent.
5	•	<trouble></trouble>
Ľ	l	

6		If you change the certificate from IIS Manager, it will not be consistent with the CA certificate (for Agent and Printer Direct) output by the Device Conductor Setting Tool, and the Agent and Printer Direct will not be able to communicate. <solution> If you want to renew the certificate, be sure to use the repair function of Installation of Device Conductor. <trouble> When you set up Device Conductor on cloud service such as AWS, Device Conductor can't communicate with Device Conductor Agent. <cause> Port for accessing Device Conductor on cloud service such as AWS from Device Conductor Agent as Client is restricted by Firewall etc. <solution> Set port used by Device Conductor on cloud service such as AWS so that it can be accessed from the outside. [Cloud Service] Amazon Web Services (AWS): security group Microsoft Azure: network security group Google Cloud Platform (GCP): firewall [Example] Amazon Web Services (AWS): security group</solution></cause></trouble></solution>
		Annaha doğun bizi • 0 2008 -2004, donun kiri farona, ki oğun marmal. Prinag Padiga Tarmad Dar
7	3.5	<trouble> Can't start Device Conductor from IIS Manager.</trouble>
	Confirm the Connection of	<solution> If there is another site that has already started using the same Port,</solution>
	Brother Device Conductor with IIS and SQL Server	it cannot be started from IIS Manager.
8	with his and SQL Server	Please stop another site, or change either Port so that they do not overlap. <trouble> Can't start Device Conductor from IIS Manager.</trouble>
		HTTP Error500.19 - Internal Server Error is displayed.
		<cause> If you install .NET Core Runtime before installing IIS, it occurs.</cause>
		It's necessary to install by following order.
		1 Configuration for Internet Information Services (IIS)
		2 Installation of .NET Core Runtime
		<solution> Uninstall .NET core Runtime and install it again.</solution>
9	3.6 Setup printer to	<trouble> Client PC can't connect server PC with Wi-Fi normally.</trouble>
	connect via Device	<situation> Access points are difference between clients and servers. Please</situation>
	Conductor Agent.	set same access point.

	Colution> Diagon associat AD you want to connect at your side energian					
	<solution> Please select AP you want to connect at your side operation.</solution>					
	<recommendation></recommendation>					
	Wired LAN is recommended to connect client PC and server PC.					
	Join printer on the same subnet network as client PC.					
10	<trouble> If you try to install Device Conductor with different User than the one</trouble>					
	who installed SQL Server, the following error message is displayed.					
	"Cannot attach the Brother Device Conductor database file in the SQL Server					
	error."					
	<solution> The following procedure completes granting SQL Server the required</solution>					
	permissions to the User who wants to install the Device Conductor.					
	(1) Log in to Windows as a User who installed SQL Server.					
	(2) Start SQL Server Management Studio.					
	(3) Right-click Login and select "New Login…".					
	Juicrosoft SQL Server Management Studio					
	File Edit View Project Tools Windo					
	Object Explorer $\forall P \times P$ Connect $\forall P \times P \times P$					
	E B DESKTOP-T40ITKD\SQLEXPRESS (SQL ▲					
	⊞ ■ Databases     □ ■ Security					
	New Login					
	is Filter hgLc ogi					
	Start PowerShell Reports Shire					
	Refresh					
	(4) Click the "Search" button.					
	(5) Enter the name of the user who wants to install the Device Conductor and					
	click the "Confirm Name" button to confirm the user name. Press OK when					
	confirmed.					
	(6) Select a server role.					
	(7) Check "sysadmin" and press OK.					
11	<pre></pre> <pre>&lt;</pre>					
	Solutions>Broadcast is prohibited in the customer's network environment.					
	1. When the printer is connected to the network, the Agent is notified from the					
	printer side by mDNS.					
	Based on this, Device Conductor Agent detects the printer.					
	2. It is possible to instruct Device Conductor Agent to search for the printer by					
	specifying the IP from DC Setting Tool.					
	· /···································					

# Tips

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No.	Chapter	Tips							
1	5.2	The SSID for Wireless Direct needs to have "DIRECT-" at its front.							
	Printer	The setting UI for SOTI Connect has "DIRECT-" by default.							
	Status	Be careful not to manually delete "DIRECT-" when setting.							
2	Notifications	When making settings through SOTI Connect, set a value within the parameter range defined for							
	/ Error log	each item.							
		If an erroneous value outside the parameter range is set, the item will not be set on the printer.							
		(When setting multiple items together, if there is even a single erroneous value included with the							
		normal values, the entire item is not set.)							
3	5.3	The printer is rebooted if any of the following items is set on the printer.							
	Configuration	When multiple items are set on the printer in file form, it is recommended that these items, which							
	using blf files	cause the printer to reboot, be set first.							
		•Firmware							
		Communication settings							
4	3.4	Self-signed certificate & self-signed CA created by using OpenSSL can also be used.							
	Installation	*Please use at your own risk.							
	of Device	[How to install "OpenSSL-Win64"]							
	Conductor	Open the website of OpenSSL to download MSI for Win64 OpenSSL v1.1.1a or later.							
		* Brother checks OpenSSL Ver.1.1.1.a. If you use later version and it doesn't work, please contact							
		your Brother sales office.							
		Example: <a href="https://slproweb.com/products/Win32OpenSSL.html">https://slproweb.com/products/Win32OpenSSL.html</a>							
		Download Win32/Win64 OpenSSL							
		Download Win32/Win64 OpenSSL today using the links below!							
		File Type Description							
		Win64 OpenSSL v1.1.1h Light       3MB Installer       Installs the most commonly used essentials of Win64 OpenSSL v1.1.1h (Recommended for users by the creators of <u>OpenSSL</u> ). Only installs on 64-bit versions of Windows. Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.							
		Win64 OpenSSL v1.1.1h       63MB Installer       Installs Win64 OpenSSL v1.1.1h (Recommended for software developers by the creators of OpenSSL). Only installs on 64-bit versions of Windows. Note that this is a default build of OpenSSL and is subject to local and state laws. More information can be found in the legal agreement of the installation.							
		Click the downloaded MSI for Win64 OpenSSL and install it (with the Default setting).							
		Please enter the path where OpenSSL is installed. In many cases, OpenSSL is installed to the following path:							
		C:\Program Files\OpenSSL-Win64							
		[How to Create self-signed certificate & self signed CA]							

		Bevice Conductor Installation – 🗆 🗙							
		Create self-signed certificate & self-signed CA ( Step 4/9 )							
		Please enter your information which is included in self-signed certificate & self-signed CA.							
		Password of Certificate:••••••Country Name:JPState or Province Name:AichiLocality Name :NagoyaOrganization Name :BrotherOrganization Unit Name:ACommon Name:192.168.1.2Effective Days:1000							
		Back Next Cancel							
		*About "Common Name", please check IP Address that this PC uses or server FQDN. \$ Common Name (e.g. YOUR name or server FQDN)							
[How to check IP Address] Start "C:\Windows\System32\cmd.exe", and execute "ipconfig"									
	check your IP Address. *Please be careful about input restrictions								
		[Password] Minimum is 3, maximum is 255							
		[Country Name] two-letter country code Please refer the following URL.							
		https://www.ssl.com/country-codes/							
		Example:							
		Japan -> JA							
		United Kingdom(UK) -> GB							
		[Effective Days] Maximum is 2000							
		[Other characters] Up to 255							
5		Device Conductor Agent uses mDNS to detect printer normally.							
		To immediately perform the first Printer detection in the network environment:							
		<solution1></solution1>							
		If you want to achieve Printer detection immediately in an environment where mDNS cannot be							
		used, please start "Device Conductor Setting Tool" and select applicable agent and click "Search Device".							

	🗟 Bother Device Conductor Setting Tool — 🗆 X							
		General <	Client	Devices	Sear	ch for devices Q Monitor Settings		
		Device Conductor Status     Running	Printers	Last Updated Model	Serial Number Firmware Ver. IP (Wirek	ess) IP (Wired) Location Co ID:7a8c8a3e1d644f90aea502179fa96 Client Type:Service	51	
		Port Number:	Brother RJ-4250WB_J8Z256785 Agents			Search Device		
		Database Server Path:	APBIL2012512			ama- A08112012512		
		localhost#SQLEXPRESS				You can enroll printer by br searching or unicast searchi		
		<sup>co</sup> If the installa		sful and the A installed PC		G Discover specific devices	×	
		name is displ				Broadcast		
		b8900d477b7e430bb4a7ad242e				Unicast     Specified address:		
		Client:				○ . ○ . ○ . ○ ○ Address range:		
		Export client setup files and you must install it on each devices which you want to manage. Create a package for this				0.0.0.0.0	. 0	
		Create a package for this computer Get client setup files				ОК	Cancel	
		Information: End User License Agreements				3 ♦ times (1-5)		
		Version						
		License						
				(	🗘 Reload			
<solution2></solution2>								
		Immediate addition of Printer in Network environment where Broadcast and Multicast a						
		prohibited. This file activates the function for Http post in Printer.						
		[How to setup	)]					
		C:\Windows\ServiceProfiles\LocalService\AppData\Local\Brother\DeviceCondcutorAg						
		ent\AppConfig	g\ForPrint	ər				
		ActivateAgentConnection.bin						
		You can set it up by sending this bin file to the target Printer with labelcc.exe.						
		labelcc.exe /ip:	" <your prin<="" th=""><th>ter address&gt;</th><th>/send_file:"<full p<="" th=""><th>ath for your ActivateAger</th><th>ntConnection.bin&gt;"</th></full></th></your>	ter address>	/send_file:" <full p<="" th=""><th>ath for your ActivateAger</th><th>ntConnection.bin&gt;"</th></full>	ath for your ActivateAger	ntConnection.bin>"	
		[Notice]						
			connected	to the netw	ork at the time o	of installation. can't get	IP address of PC. so	
		If PC is not connected to the network at the time of installation, can't get IP address of PC, so this file doesn't contain IP address of PC. As a result, even if this file is transferred to the Printer,						
		it will not be a		11 8441635	011 U. AS a 1651	an, gygn ir ulið liig ið líð		
				<b>4</b> ha matrix	k aatting filler		atad whan is stalled with	
			ended that	the networ	к settings of the	PC nave been compl	eted when installing the	
		Agent.						
		*As soon as t	he Printer	is found by	the Search Dev	vice function and mDN	S Polling function of the	
		Agent, it will b	be applied	by the Age	nt so that Http p	ost can be performed.		