

APPLICATION NOTE: How to Setup Silex USB Device Servers (DS-510, DS-600)

Silex Technology America 201 East Sandpointe, Suite 245 Santa Ana, CA 92707 June 6, 2020

Contents

Introduction	4
Package Contents	4
Setup and Powering up the Device	4
Download the Setup Utility	5
Device Server Setup Utility and DS-510 Configuration	6
Install SX-Virtual Link Software	11
 Manage USB Device Using SX Virtual Link	16 16 17 17 18
Appendix	19
Setting up High Performance USB Device Server (DS-600)	



Revision History

Rev. No.	Date	Revision by	Description
1.0	June 12, 2020	B Hashim	Initial version (A)



Introduction

The purpose of this application note is to explain the steps necessary to setup Silex USB device servers (DS-510, DS-600 and DS-520AN) easily in the quickest amount of time. For details on the product functions and how to use them please refer to the product user manual. This application note will walk you through the steps required to get the USB device server up and running with your device.

The document calls out DS-510 when setting up the device, but the instructions can also be used for DS-600 (as noted in the Appendix).

Package Contents

You will need the following items to setup your network as shown in the figure below.



To connect multiple USB devices to the DS-510 you will need to use a USB hub. If you are using a USB hub it will give you the flexibility to add more USB devices later.

Note: For setup we will not use a ethernet hub and connect the DS-510 directly to a USB device. You can use your home router and connect the DS-510 directly into it.

Setup and Powering up the Device

Step 1: You can connect the DS-510 to the network (either directly or using an ethernet hub) using the Network Cable (1) shown below.

Step 2: Connect the DS-510 to the USB device using a USB Cable (2) as shown.

Step 3: Connect the AC adapter (3) to the DS-510 and the AC plug to the power outlet (4).

Step 5: Confirm that the Power LED and the LINK LED turn as shown (5) in the figure.





Download the Setup Utility

- 1. Go to the URL https://www.silextechnology.com/resources
- 2. Select the appropriate product using the drop-down menu.

Technical Resources

Filter below to access technical specifications, application notes, and white papers by product.

Product:		Туре:	
DS-510	•	All	•

3. Here you can find all the documentation and software for the product. The utility you want to download to set your device up is the "Device Server Setup Utility".

Note: We have both Windows and Macintosh versions for the utility. Please download the correct one for your environment.





Device Server Setup Utility and DS-510 Configuration

Before you begin configuration, it is recommended that you temporarily disable the firewall function of the computer. If you do not, windows will ask you to disable it later in the process (See step 3 below).

1. After you have downloaded the zipped file, please unzip the file, and run the .exe file available in the folder and follow the below steps to configure the DS-510.

Name	Size	Packed	Туре	Modified	CRC32				
- <mark></mark>			File folder						
Autorun	4/24/2020 8:42 AM								
Manual	Manual File folder 5/7/2								
Readme	Readme File folder 4/24/								
Utility	Utility File folder 4/24/								
📓 Autorun.inf	Autorun.inf 47 36 Setup Information 10/3								
💶 Dssetup.exe	7/22/2015 2:52 PM	0659B287							
Dssetup.ini 3,432 906 Configuration settings 4/7/2020 9:52 AM									
From: C:\Users\bhashim\AppData\Local\Temp\Rar\$EXa0.150 Run Cancel									
		F	Run Cancel						

2. Click Device Server Configuration.





3. Configure using setup Utility. There are other ways to configure (refer to the user manual for details), but the recommended way for quick and easy setup is to use the setup utility.



If the firewall is enabled, windows will ask you to add this application in the exceptions list of your OS's Firewall. Please click "yes" to proceed.

Device Ser	rver Setup	\times
?	When using this application, it needs to be added to the exceptions list of the Windows firewall. Do you want to add this application to the exceptions list?	
	Yes No	



4. The Device server setup process will start. Click "Next" to proceed. And accept the License agreement by clicking "Yes".



SOFTWARE LICENSE	AGREEMENT		^
By installing the Softw	are you agree to the terms of this License A	greement.	
Device Server Setup I	icense Agreement		
This is a legally bindin corporation and super	Agreement between you and "silex techno sedes anv purchase order placed by you. I	logy, Inc.", a Japanese f vou do not aoree with the	~
)o you accept all term	of this agreement?		



5. The utility will automatically detect and populate the ethernet MAC address of the DS-510. Click "Next".

Scient det di Address Adomatically di the next scient and chek next to proceed.

84 : 25 :	3F : 27 : 90	: 79	
IP Address	Model Name		
192.168.1.131	DS-510		
s not detected, refer to the	FAQ on our	Search	
	84 : 25 : IP Address 192.168.1.131	84 : 25 : 3F : 27 : 90 IP Address Model Name 192.168.1.131 DS-510 s not detected, refer to the FAQ on our	84 : 25 : 3F : 27 : 90 : 79 IP Address Model Name 192.168.1.131 DS-510 s not detected, refer to the FAQ on our Search

Device Server Setup												×
Setting TCP/IP Setting TCP/IP will proceed.												
Get IP Address Automatically												
Assign IP Address												
IP Address	0			0		0		0				
Subnet Mask	0			0	-	0		0				
Default Gateway	0			0		0		0				
МЕМО												
If you select [Get IP Address Automatically], product If a DHCP server is not available of	, the D	HCF mar) se	erve allv s	r as	sign m ar	san nıP≱	IP add	lress t s	to this		
product. In a biror control to not artimatic, p				, .		, u.			.			
			<	Bac	k			Next >			Car	icel



6. By clicking "Execute" you will be able to send and save the configurations to the DS-510.

Upon the completion of this step, the utility will ask you if you want to download Silex's SX-Virtual Link Software. SX Virtual Link is software that allows you to connect to USB devices across the network connected to Silex USB Device Servers. The way it works is that the software emulates a USB connection on the computer and makes the USB device (such as a printer) connected to the SX Virtual Link enabled device look as if it were directly connected. This makes it easy to connect and share USB devices on the network.

, Da in Craw Criw		
Device Server Setup		X
Confirm Configuration Param The values entered are as fo	neters bliows:	
Item [TCP/IP] DHCP	V	falue nable
Click [Execute] and the Setti	ings will be sent.	
		< Back Execute Cancel
Device Server Setup		×
2.	Device	Server Setup is completed
	Configuration	n of this product has finished.
\square	If you will us to install the	e the device server from the current computer, you need application software.
	Install the so	ftware now?
	Yes	
	∩No	
		< Back Finish Cancel

It is recommended you click "Yes" to begin installation.



Install SX-Virtual Link Software

1. The following windows will open sequentially to run the .exe files to begin installation of the SX-Virtual Link Software. Click "Run".



While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. <u>What's the risk?</u>



2. Click "Next" to begin installation.

SX Virtual Link Installer		×
	Welcome to the SX Virtual Link Installer	
	This wizard helps you install SX Virtual Link on your PC.	
	Before installation, please close any running programs. To begin installation, click [Next].	
	If security software is installed on your PC, the software' settings may need to be changed. For details on changing the settings, refer to the Support FAQ page on our Web site.	5
	https://www.silextechnology.com/support	
	< Back Next > Cance	ł

3. To use the SX Virtual Link software it is necessary to accept the license agreement. Click "Yes" to accept.

SX Virtual Link Installer	×
User License Agreement Please read the agreement below.	
In order to read the entire license agreement, use the [Page Down] key.	
\$OFTWARE LICENSE AGREEMENT By installing the Software you agree to the terms of this License Agreement. SX Virtual Link License Agreement This is a legally binding Agreement between you and "silex technology, Inc.", a Do you accept all the terms of the preceding agreement? In order to use SX Virtual Link it is necessary that you accept this agreement.	^
< Back Yes	No



4. Browse to the folder (or leave it at default settings) in which you want to install the application software. Then click "Next" to continue. You can do the same and create a shortcut for the program in the Start Menu.

SX Virtual Link Installer	×
Choose Install Location Choose the folder in which to install SX Virtual Link.	
Setup will install SX Virtual Link in the following fold [Browse] and select another folder. Click [Next] to d	der. To install in a different folder, click continue.
Destination Folder C:\Program Files\silex technology\SX Virtual Li	nk Browse
	< Back Next > Cancel

SX Virtual Link Installer	×
Select Start Menu Folder Select a folder to place the program's shortcut.	
Setup will create a shortcut to SX Virtual Link in the following Start Menu folder. If you would like to select a different folder, enter a new group name or select from the list.	
Group Name	
silex Device Server\SX Virtual Link	
Existing Groups	
7-Zip Accessibility	^
Accessories Administrative Tools	
Cisco	~
< Back Next > 0	Cancel



5. Click "Start" to begin installation.



- 6. You will need to restart the computer to complete installation. Click "Restart".



7. Click "Run" to run the application. If you do not see this dialogue box, you can open the application from the start menu or from the task tray as shown in the next step

Open File	- Security War	ning	Х
Do you	want to run tl	nis file?	
	Name:	ram Files\silex technology\SX Virtual Link\Connect.ex	e
	Publisher:	silex technology, Inc.	
	Туре:	Application	
	From:	C:\Program Files\silex technology\SX Virtual Link\Con	
		<u>R</u> un Cancel]
<mark>∕ Al<u>w</u>a</mark>	ys ask before o	opening this file	
۲	While files fr harm your co <u>What's the ri</u>	om the Internet can be useful, this file type can potentially omputer. Only run software from publishers you trust. <u>sk?</u>	у

8. Click the application icon (\bigcirc) in the task tray or click Start \rightarrow All Programs \rightarrow SX-Virtual Link \rightarrow SX-Virtual Link.





Manage USB Device Using SX Virtual Link

1. Connecting USB Devices

If you have not connected your USB device (e.g.: USB printer) to the DS-510, you will see the DS-510 on your network as shown below. The options below will be greyed out.



If you have the printer or any other USB device connected to the DS-510, you will see it appear as shown below. The USB device can be connected when the status button icon (\bigcirc) is displayed. Select the USB device and click the **Connect** button (\bigcirc).





2. USB Device Availability

The Plug and Play function automatically creates an appropriate environment to use the selected device. The USB device will be ready to use once the status icon has changed to (\bigcirc).

10	SX Virti	ual Link	×
🕥 SX Vir	tual Link	\$ B	¥ ? -
1	Printer		
	Vou are connected		
	6		

Note: Only one USB device can be connected at a time. When the USB device is in use by another computer, the status icon ((P)) is displayed, which means that the USB device is not available now.

3. Disconnecting USB Devices

When you have finished using the USB device, disconnect the device by selecting it and clicking the "Disconnect" button (
). The USB device can also be disconnected by selecting and double clicking on the SX Virtual Link.

8	SX Virtua	l Link	- D ×
SX Virtual	Link	\$ B	<u> </u>
Printer		>	
S You	are connected)	
		2	
		•)	
	4		



4. Accessing Online Help

Click the help button (______) and select **Help** from the menu as shown below.





Appendix

Setting up High Performance USB Device Server (DS-600) The setup is the same as the DS-600 as described above. Follow the same exact steps.

