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FT-Soft Quick Start Guide

Installing FT-Soft

Only an administrative user may install FT-Soft.

1. Insert the CDROM and locate the installation program named FTSoftSetup_?_??.exe (where ?_?? is the version number).

2. Double click on the installation program to start the automated installation process.

付 Setup - FT-Soft	- □ X
	Welcome to the FT-Soft Setup Wizard
	This will install FT-Soft 0.0.1.03 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

3. The license agreement will be displayed. If the terms are acceptable, click on "Next".

📲 Setup - FT-Soft — 🗌	×
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
END-USER LICENSE AGREEMENT FOR FT-Soft from Data Comm for Business, Inc. IMPORTANT PLEASE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE CONTINUING WITH THIS PROGRAM INSTALL: Data Comm for Business, Inc's End-User License Agreement ("EULA") is a legal agreement between you and Data Comm for Business, Inc. for the software product(s) identified above which may include associated software components, media, printed materials, and "online" or electronic documentation. By installing, copying, or otherwise using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. This license agreement represents the entire agreement concerning the program between you and Data Comm for Business, Inc., (referred to as "licenser"), and it supersedes any prior proposal, representation,	< >
 I accept the agreement 	
◯ I do not accept the agreement	
< Back Next > C	ancel

4. The "Select Destination Location" window will be displayed. This is the folder that will contain the FT-Soft program. Select a destination folder if the default isn't appropriate, and press "Next".

🔞 Setup - FT-Soft	—		×
Select Destination Location Where should FT-Soft be installed?		6	
Setup will install FT-Soft into the following folder.			
To continue, click Next. If you would like to select a different folder, c	lick Brow	se.	
C:\Program Files (x86)\FTSoft	Bro	owse	
At least 3.8 MB of free disk space is required.			
< Back Nex	t >	Can	cel

5. The "Select Start Menu Folder" window will be displayed. This is the folder that will contain the program shortcut. Select a destination folder if the default isn't appropriate, and press "Next".

骨 Setup - FT-Soft	_		×
Select Start Menu Folder Where should Setup place the program's shortcuts?			
Setup will create the program's shortcuts in the following Sta	nt Menu f	older.	
To continue, click Next. If you would like to select a different folder, o	lick Brov	/se.	
FTSoft	Br	owse	
< Back Ne	xt >	Ca	ncel

6. The "Select Additional Tasks" window will be displayed. Be sure "Create Virtual Ethernet Adapter" is selected if this is the first time you are installing the software or if you purchased a second key and wish to create a second virtual adapter. Note: If this is a re-install or update, do NOT check this box. If a desktop icon is desired, also select that check box. Then press "Next".

🕞 Setup - FT-Soft	_		×
Select Additional Tasks Which additional tasks should be performed?		¢	
Select the additional tasks you would like Setup to perform while insta click Next. Create Virtual Ethernet Adapter	illing FT-	Soft, then	
Additional icons:			
Create a desktop icon			
< Back Net	kt >	Car	ncel

7. The "Ready to Install" window is displayed. If all locations are correct, click on the "Install" button. If changes are required, click on the "Back" button and make appropriate changes before proceeding.

🔞 Setup - FT-Soft —		×
Ready to Install Setup is now ready to begin installing FT-Soft on your computer.	(
Click Install to continue with the installation, or click Back if you want to review or change any settings.		
Destination location: C:\Program Files (x86)\FTSoft Start Menu folder:	^	
FTSoft Additional tasks: Create Virtual Ethemet Adapter Additional icons: Create a desktop icon		
<	>	
< <u>B</u> ack Install	Cano	el

8. The "Installing" informational window will be displayed while the program is automatically installed.

🔞 Setup - FT-Soft	
Installing Please wait while Setup installs FT-Soft on your computer.	
Setting Software Key	
	Cancel

9. If you selected the "Create Virtual Ethernet Adapter" box, you will be asked to enter the Software Key. Enter the 16 alpha numeric key that came with the FT-Soft program. Then press "OK" to continue. Please note that each copy of FT-Soft must have a unique software key per the license agreement. Attempting to use the same key on multiple PCs will confuse the server device, resulting in frequent communication failures.

Install Virtual Adapter				
Software Key				
Each Virtual Ethernet Adapter requires a unique Software Key. One was included with the install media. Additional Software Keys may be purchased by contacting DCB.				
Enter Software Key 1234-5678-9ABC-DEF0				
OK Exit				

10. You may see a screen that tells you that the software "has not passed the Windows Logo testing". Press "Continue Anyway".

11. After installation, the Setup Wizard will display any import information. Please review the information before proceeding.



12. The "Completing the FT-Soft Setup Wizard" screen will be displayed. Click on the "Finish" action button to close the installer.



Installation is now complete. Before running FT-Soft, configure the DCB Virtual Ethernet Adapter with an IP address and subnet mask.

Configuring the DCB Virtual Ethernet Adapter

FT-Soft creates a Virtual Ethernet Adapter on your system. Before running FT-Soft, this Virtual Ethernet Adapter should be configured appropriately for your application. Configuring the Virtual Ethernet Adapter is similar to configuring a physical Network Adapter. However, it is recommended that the Virtual Ethernet Adapter have a static IPv4 configuration and NOT be configured to "obtain an address automatically". Trying to obtain an address automatically will override the physical Network Adapter's gateway resulting in a routing failure.

1. Right-click on *Start* and select *Run*. Run the command "ncpa.cpl" to open the Network Connections window.





2. Locate and right-click on the DCB Virtual Ethernet Adapter. Select "Properties".



3. Highlight "Internet Protocol Version 4" and click on "Properties".

networking	Sharing				
Connect us	sing:				
DCE	Virtual Ethem	et Adapter			
			Configu	re	
This conne	ction uses the	following items:			
🗹 🏪 O	ient for Micros	oft Networks		^	
🛛 🗹 🏪 Fi	le and Printer S	Sharing for Microsof	t Networks		
V_\$	rtualBox NDIS	6 Bridged Networki	ng Driver		
	oS Packet Scl	neduler	_		
	ternet Protoco	Version 4 (TCP/IP	v4)	1) Clicl	k once to highlight
	icrosoft Netwo	rk Adapter Multiple	or Protocol		
✓ 1 M	ICROSOFT LLDP	Protocol Driver		× *	
< .				>	
Inst	all	Uninstall	Propertie	es 🧲	2) Click on propertie
- Descripti	on				
	ssion Control P	rotocol/Internet Pro	tocol. The defa	ult	
Transmi		ocol that provides (communication		
Transmi wide are	a network pro				
Transmi wide are across o	a network prof liverse intercor	nected networks.			

4. Configure the Virtual Adapter with a static address on your private FT network. The IP address and Subnet mask shown below is for demonstration purposes and will likely differ for your application. However, do NOT set a default gateway. Doing so will interfere with the active default gateway setting for the physical network adapter.

Internet Protocol Version 4 (TCP/IPv	4) Properties X
General	
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings. Obtain an IP address automatic	tomatically if your network supports to ask your network administrator Configure a static IPv4 address cally your private (FT) Network
Use the following IP address:	
IP address:	192 . 168 . 56 . 25
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server address aut	iomatically
Use the following DNS server as	ddresses:
Preferred DNS server:	· · ·
Alternate DNS server:	
Validate settings upon exit	Advanced
	OK Cancel

5. Exit the IPv4 properties by pressing "OK", then exit the Ethernet properties by pressing "OK".

Configuring FT-Soft

To modify the FT-Soft configuration, FT-Soft must be run as an administrator. Locate the FT-Soft Icon, right click the icon and select *Run as administrator*.

	Open
Gas SC	Open file location
	Run as administrator
	Troubleshoot compatibility
- <u>6</u>	Pin to Start
- 📑 🕀	Scan with Windows Defender
. Auda	PDF Architect 7
	Pin to taskbar
<u> 8</u> _	Restore previous versions
. F3302	Send to >
	Cut
<u> </u>	Сору
1	Create shortcut
VMw	Delete
vSpł	Rename
	Properties
FT-Soft	Wireshark
Ŷ	Right-Click

Configure the IP address and Port number of the FT Server. This should correspond to the FT Server's Public address and port.

Tunnel (Configuration					×
Virtu	ual Interface	Ethernet 3			Ŷ	?
	Server IP	10.12.22.171		Port	22]
Backu	ıp Server IP			Port	22	
		Generate Local Key				
Idle Dis	connect Time	45		UDP	Transport	
Ser	nd Keep-Alive	15	Send	Buffer 81	92 🔻	
		Connect	Exit	:		

Click on the *Generate Local Key* button. For this step, you will need the USB Flash drive that contains your FT Certificate Authority (CA). This is the same USB Flash drive used for your FT Server and any FT client devices.

Tunnel Configuration		×
Virtual Interface	Ethernet 3	?
Server IP	10.12.22.171	Port 22
Backup Server IP		Port 22
	Generate Local Key	
Idle Disconnect Time	45	UDP Transport
Send Keep-Alive	15 Send	Buffer 8192 💌
	Connect Exit	t

Install the USB flash drive into an available USB port on your PC. Click on the *Find CA* button. The software will attempt to find a valid FT Certificate Authority. If successful, it will show the drive letter in the list-box. If not successful, the list-box will remain empty. Please verify you have installed the correct USB flash drive into your PC.

Generate Local Key	×
	2
Name My Name	:
Certificate Lifetime 3650 days	
Optional Local Password	
Verify Local Password	
Certificate Authority (CA) Key	
Find CA Find CA Find CA button to locate the drive.	
CA Password	
Generate Cancel	

Enter a name for your FT-Soft client. Also, enter the password for the CA. This must be the same password used when the CA was created. Optionally, you can enter a local password. This password is used to protect the FT-Soft client's local key. If you choose to password protect the key, the password will need to be entered each time FT-Soft is run.

Generate Local Key	×
Name In Name 1	?
Certificate Lifetime 3650 days	
Optional Local Password Verify Local Password	
Certificate Authority (CA) Key	
Find CA	
CA Password ****** 3	
4 Generate Cancel	

Press the *Generate* button to generate your local key. This may take some time. Several command-line screens will appear during the generation process.

.\ftssl.exe		_					
Loading 'screen' into Generating a 2048 bit	random state - done RSA private key			^			
· · · · · · · · · · · · · · · · · · ·	····· -				-		×
					?		
-							
NView	CA Password	******		▼			
64-29-2626 04-29-2626	14:4) 14:49:	Generate	Cancel		-rg		
essPCB 04-29-2020 04-29-2020	14:40:17 Configura 14:40:17 Configura	tion C:\Program tion C:\Program	Files (x8 Files (x8	36)\FTSoft\config\a 36)\FTSoft\config\a	config.cfg r config.cfg r	10 10	

If all goes well, you will see a successful status message.

You are now ready to connect to your server.

Tunnel Configuration		×
Virtual Interface	Ethernet 3	?
Server IP	10.12.22.171 Port 22 Port 22	
	Generate Local Key	
Idle Disconnect Time	45 UDP Transport	
Send Keep-Alive	15 Send Buffer 8192	
	Generate Local Key successful.	
	Connect Exit	

Connecting to the server

Press the *Connect* button. If FT-Soft successfully connects with the server, the program will automatically minimize into the task bar. Pressing on the FT-Soft task icon will reopen the main FT-Soft window.



The main FT-Soft window will display logging information. This information can help with diagnosing any connection problems.

A successful connection will show the name of the server and that the tunnel is established.



If the connection is unsuccessful, error messages will be displayed to the log window. Please review the messages for information regarding why the connection failed. In addition, check your FT server's log to see if your client is reaching the server. The most common cause of a connection problem is the PC's firewall. These will often show as a connection timeout. Make sure the firewall is allowing the outbound communication. Likewise, make sure the firewall at the server end is allowing the inbound communication.

a ftclient	—	×
Menu Help		
04-29-2020 16:35:53 Cryptographic module: FIPS mode enabled		
04-29-2020 16:35:53 Configuration folder: C:\Program Files (x86)\FTSoft\confi	g	
04-29-2020 16:35:53 Tunnel Start		
04-29-2020 10:35:53 VIRTUAL INTERFACE MAC: 00:09:aa:f0:00:18		
04-29-2020 10.03.30 VIRLUAL INTERFACE PESTAPLED. RH-20-2020 16.35.50 Connecting to conver 10 12 22 170.22		
04-29-2020 16:36:55 Timeout connecting to server 10.12.22.170:22		

The next most common problem is an error with the key. This will show as a certificate error. It can be caused by using the wrong CA when generating the local key, connecting to the wrong server, or a clock mismatch between the PC and the FT server at the time that the local key was generated. If caused by a clock mismatch, it may be necessary to regenerate the local keys if the clock discrepancy is large. If the discrepancy is only a few minutes, the problem will usually correct once enough time has passed. If the

discrepancy was at the time the CA was generated, it may be necessary to regenerate the CA and all new local keys. If you have other FT clients successfully connecting to the FT server, then **do not** generate a new CA. The CA is probably fine and the problem is localized to the PC's local key.

2 ftclient	_	×
Menu Help		
04-29-2020 16:33:56 Cryptographic module: FIPS mode enabled		
04-29-2020 10:33:56 Configuration folder: C:\Program Files (x86)\Fiso	+t\con+1g	
04-29-2020 16:33:56 lunnel Start		
04-29-2020 16:33:56 Virtual Interface MAC: 00:09:aa:+0:00:18		
04-29-2020 16:33:56 Virtual Interface restarted.		
04-29-2020 16:33:57 Connecting to server 10.12.22.171:22		
04-29-2020 16:33:57 Connected. Starting SSL with 10.12.22.171:22		
04-29-2020 16:33:57 certificate verify failed		
04-29-2020 16:34:05 Connecting to server 10.12.22.171:22		
04-29-2020 16:34:05 Connected. Starting SSL with 10.12.22.171:22		
04-29-2020 16:34:05 certificate verify failed		
04-29-2020 16:34:12 Connecting to server 10.12.22.171:22		
04-29-2020 16:34:12 Connected. Starting SSL with 10.12.22.171:22		
04-29-2020 16:34:12 certificate verify failed		

To terminate a FT-Soft session, select *Menu* and press *Disconnect and Exit*. Alternately, press the "X" button in the corner of the window.

Once you have a valid configuration, it is not necessary to run FT-Soft as an Administrator. Subsequent sessions may be run as a normal user. However, to make any modifications to the configuration, you must run FT-Soft as an administrator.

Ttclient			×
Menu Help			
Reconfigure Disconnect and Exit			
04-29-2020 15:56:12 Cryptographic module: FIPS mode enabled			
04-29-2020 15:56:12 Configuration folder: C:\Program Files (x86)\FTSoft\config	I		
104-29-2020 15:50:12 LUNNEL START 00-20-2020 15:56:12 Hirtual Interface MAR: 00:00:aa:f0:00:18			
04-29-2020 15:56:12 Virtual Interface restarted.			
04-29-2020 15:56:13 Connecting to server 10.12.22.171:22			
04-29-2020 15:56:16 Shutting down 10.12.22.171:22			
04-29-2020 16:24:19 Save configuration C:\Program Files (x86)\FTSoft\config\co	nfig.	C	
104-29-2020 16:24:19 Tunnel Start			
184-29-2828 16:24:19 Virtual Interface MAC: 88:69:aa:f0:00:18			
104-29-2020 10:24:19 Virtual Interface restarted.			
194-29-2020 10:24:20 Connecting to server 10.12.22.1/1:22			

Selecting "Reconfigure" will close the current tunnel connection and return to the "Tunnel Configuration" dialog.

Selecting "Disconnect and Exit" will close the current tunnel connection and exit the program. Pressing the "X" button, on the title bar, will also disconnect and exit.

For more information regarding FT-Soft configuration, select the *Help* menu item or press the "?" button located in the Tunnel Configuration dialog.

To Create Additional Connections using Desktop Icons

For users that frequently connect to different servers, it is possible to create a desktop shortcut that automatically loads a specific configuration. This is achieved by creating a shortcut and adding a command-line argument, specifying the full path to a configuration folder. Each connection must have a different configuration folder.

On older versions of Windows, an easy way to do this was to simply copy the default FT-Soft desktop icon and then modify it. Do not use this method with Windows 8 and 10. Instead always create a new shortcut.



Create a new shortcut by right-clicking on the desktop, selecting $New \rightarrow Shortcut$.

Browse and locate "ftclient.exe", normally located in "C:\Program Files (x86)\FTSoft".

	×
n Create Shortcut	
What item would you like to create a shortcut for?	
This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.	
Type the location of the item:	
Browse	
Click Next to continue. Press browse and locate ftclient.exe	
Next Cancel	

Before pressing "Next", append the full pathname to your configuration folder. You are free to place the folder where you like. However, make sure each FT-Soft configuration folder is unique. Otherwise multiple instances of the same folder will overwrite each other.

		×
÷	n Create Shortcut	
	What item would you like to create a shortcut for?	
	This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.	
	Type the location of the item:	
	"C:\Program Files (x86)\FTSoft\ftclient.exe" Browse	
	Click Next to continue.	
	Next Cance	

When entering the folder name, make sure to add a space following the current target and to enclose the configuration folder name between double quotes.

	×
 Create Shortcut 	
What item would you like to create a shortcut	for?
This wizard helps you to create shortcuts to local or network Internet addresses.	programs, files, folders, computers, or
Type the location of the item:	
"C:\Program Files (x86)\FTSoft\ftclient.exe" "C:\MyFTSoftC	onfigs\Config1" Browse
Click Next to continue. Before pressi connection s	ing Next, append the path to your pecific configuration folder.
	Next Cancel

Press "Next" and assign the shortcut a unique name.

		×
Create Shortcut		
What would you like to name the shortcut?		
Type a name for this shortcut:		
Give unique name Click Finish to create the shortcut.		
	Finish	Cancel

The resulting desktop icon will look something like the one below:



If needed, right-click the icon and select "Properties" to modify the shortcut target.

🚮 SomeConne	tion Properties	×
Security General	Details Shortcut	Previous Versions Compatibility
SomeConnection		
Target type: Application		
Target:	FISoft\ftclient.exe"	MyFTSoftConfigs\Config1"
Start in:	"C:\Program Files (x86)\FTSoft"	
Shortcut key:	None	
Run:	Normal window \checkmark	
Comment:		
Open File Location Change Icon Advanced		
OK Cancel Apply		

Remember to create the folder prior to running FT-Soft with this new icon. Also, the folder will belong to the user that created the folder. If necessary, adjust the security setting to allow or restrict access per your requirements. By default, the user that created the folder will be able to run FT-Soft, with this icon, and adjust the configuration.