Installation Manual
DCM-401-0918 Rev. 2.8
September 2024

DCMlink Software

EMERSON

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Section 1: Installing DCMlink

1.1 Installation Overview

DCMlink Software should be installed on a computer that meets the system requirements. The following steps detail how to uninstall and reinstall. Reinstall if the software is to be removed, updated or repaired only.

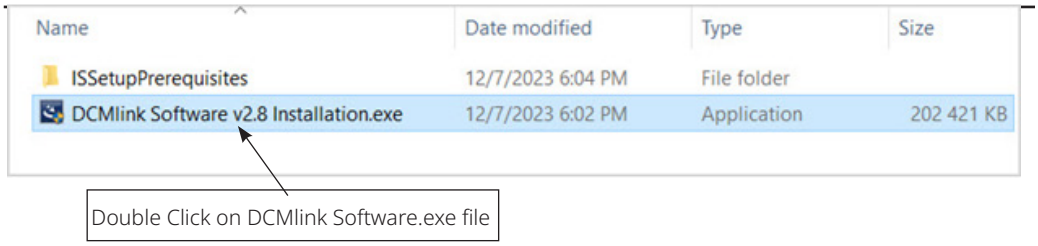
NOTE:
Installation of DCMlink requires administrator privileges.

1.2 New Installation

NOTE:
If the user has a previous version already installed, please uninstall it first from the Control Panel > Add Remove Programs. Next, please delete the DCMlink shortcut from the Desktop.

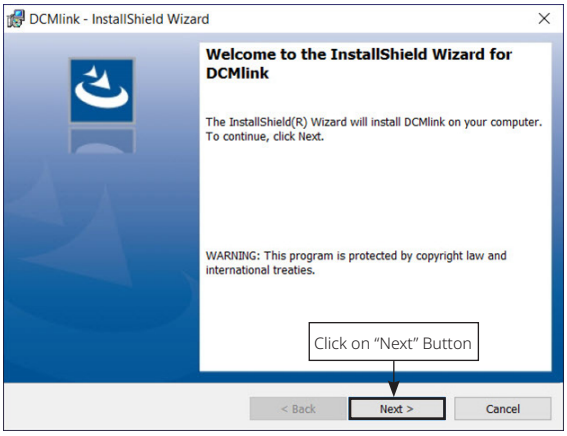
1.2.1 First locate the installer folder containing the .exe file from downloads. Double click on the .exe file to begin installation of the software.

Figure 1. DCMlink Installer



1.2.2 Click Next button.

Figure 2. DCMlink Installation Initialization



1.2.3 There are 3 options for installation. Click on one option and then click **Next**.

- DCMlink SOLO
- DCMlink SNAP-ON
- DCMlink Device Type Manager (DTM)

NOTE:

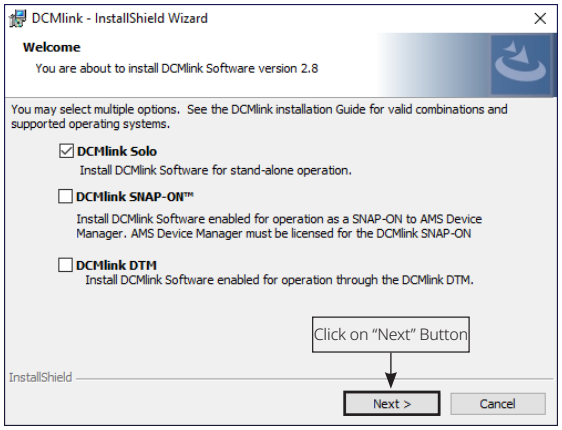
1. SOLO and SNAP-ON can be installed in one installation by selecting "DCMlink SOLO" and "DCMlink SNAP-ON" options.
2. SNAP-ON and DCMlink-DTM can be installed in one installation by selecting "DCMlink SNAP-ON" and "DCMlink DTM" options.
3. Both "DCMlink SOLO" and "DCMlink DTM" options cannot be selected at the same time.

1.2.4 DCMlink SOLO

NOTE:

Install DCMlink software for stand-alone operation.

Figure 3. DCMlink SOLO Option

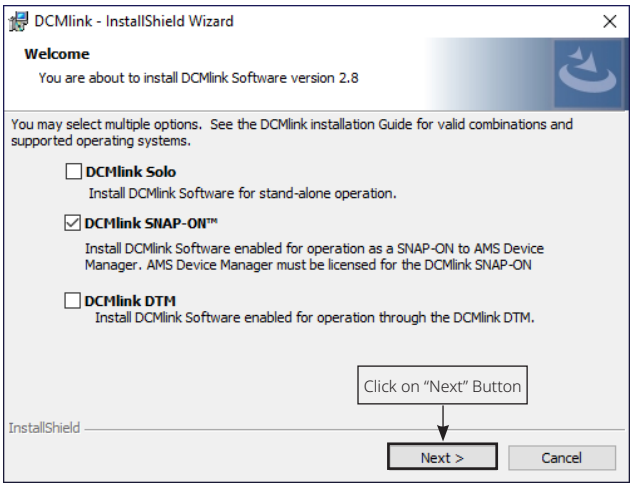


1.2.5 DCMlink SNAP-ON

NOTE:

Install DCMlink software enabled for operation as a SNAP-ON to AMS Device Manager. AMS Device Manager must be licensed for the DCMlink SNAP-ON.

Figure 4. DCMlink SNAP-ON Option

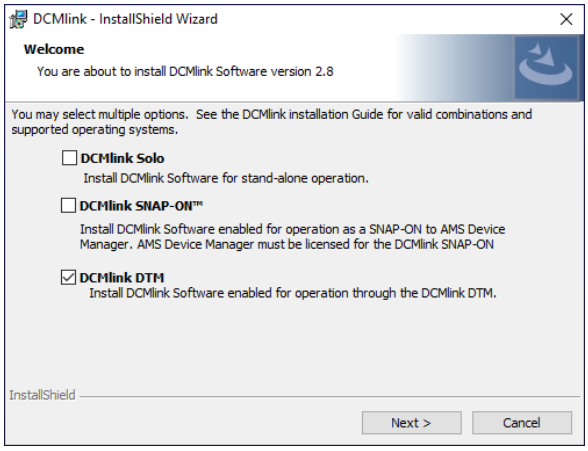


1.2.6 DCMlink DTM

NOTE:

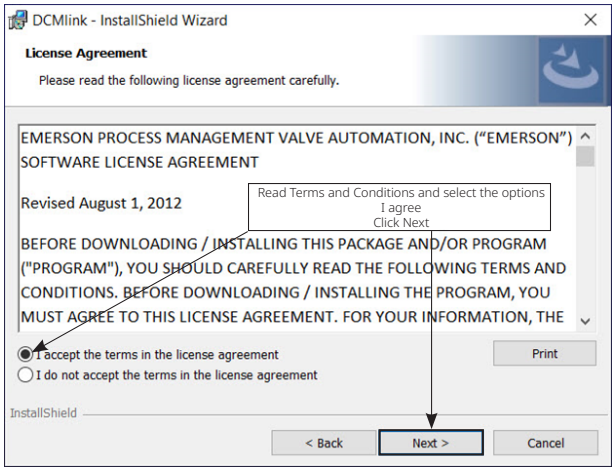
1. Please review the general instructions in Section: 3.8 Setup Network for Device Type Manager to make sure the setup is correct before installing and operating DCMlink DTM on any device.
2. Upon new installation of DCMlink DTM, user would get a trial period of 60 days.

Figure 5. DCMlink DTM Option



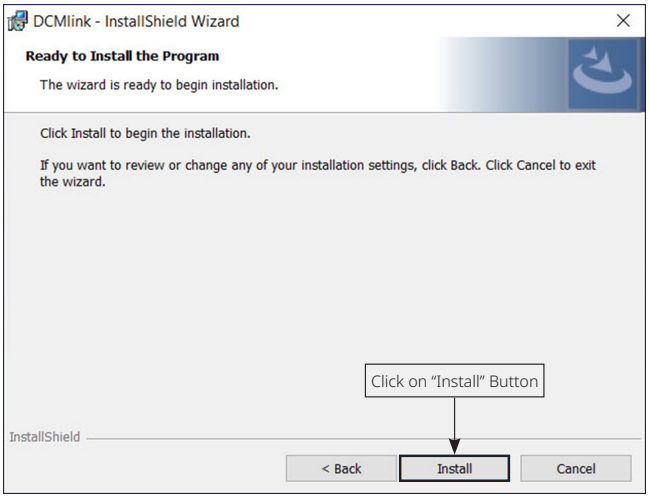
1.2.7 Read Terms and Conditions and select **accept** and click **Next**.

Figure 6. Terms of Use



1.2.8 Next, click **Install**.

Figure 7. Install DCMlink



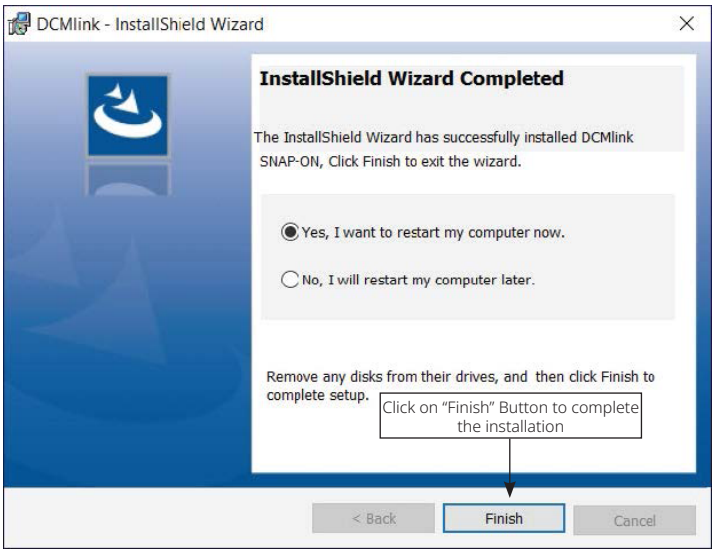
1.2.9 Installation will begin.

Figure 8. Installation Progress Bar

1.2.10 Click **Finish** to complete installation.

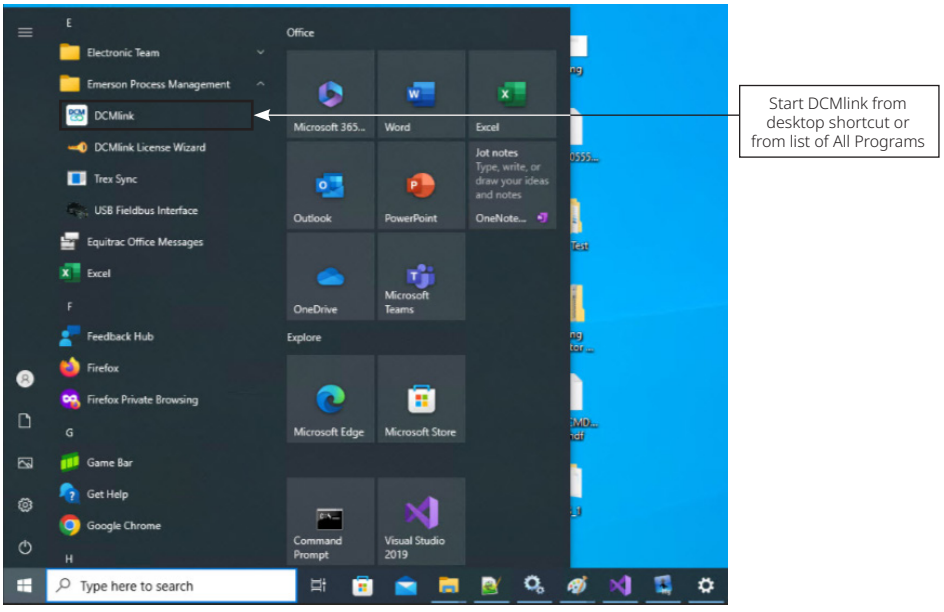
NOTE:
Restart is recommended.

Figure 9. Completing the Installation



1.2.11 Start DCMlink application from desktop shortcut or from the list of **All Programs**.

Figure 10. DCMlink Start Menu Shortcut



1.3 DCMlink Auto Update

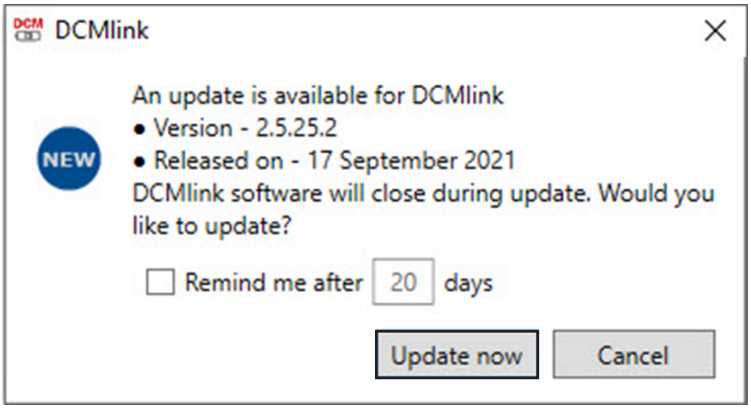
1.3.1 If there is a newer version of DCMlink available than currently installed, when launching DCMlink a popup window will indicate that the update is available. Additionally, the user may check for an update by using the menu option Help > Check for Updates.

NOTE:

Users will need administrative rights to update DCMlink to the latest version of the software.

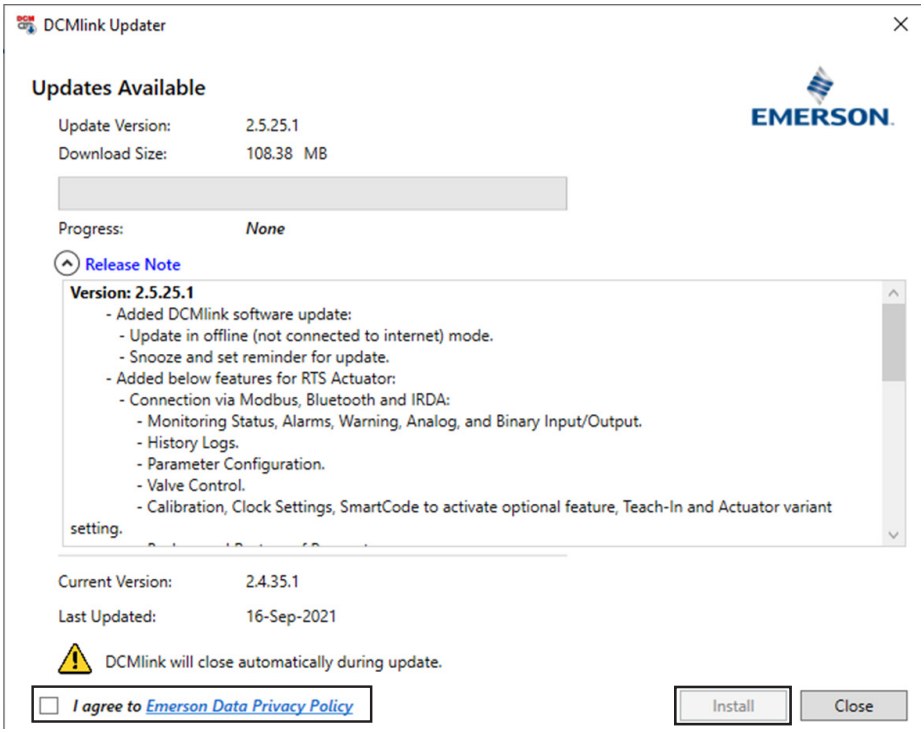
1.3.2 To install DCMlink updates, click on 'Update now'.

Figure 11. Update Notification



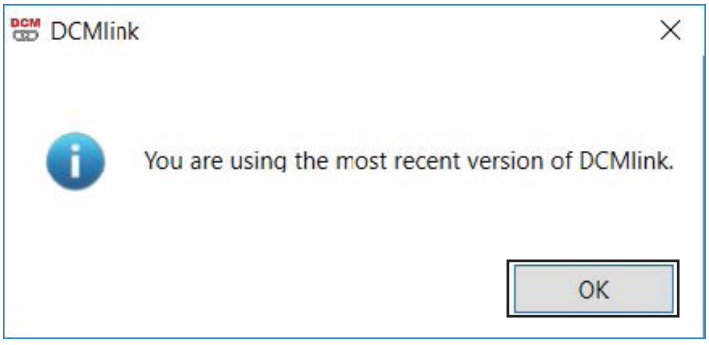
1.3.3 Upon launching DCMlink Updater, a window specifying the size of download, available version, release note and other information will appear. To proceed with an update, the user must agree to “Emerson Data Privacy Policy” and click on “Install”.

Figure 12. DCMlink Updater



1.3.4 Once the update is completed, the DCMlink application will close automatically. If the user wants to check for more updates, click "Check For Update" again. The below screen will show up to confirm the installation of the latest version.

Figure 13. Latest Version Notification



Section 2: License Activation Wizard

2.1 License Features

Table 1. DCMlink License Features

Feature	Product Name			
	SOLO		SNAP-ON	DTM
	SOLO Standard	SOLO Advanced		
Modbus® Master	✓	✓	Not applicable	Not applicable
Modbus Slave	✓	✓	Not applicable	Not applicable
Modbus TCP-IP	✓	✓	Not applicable	Not applicable
Bluetooth®	✓	✓	Not applicable	Not applicable
Standard Diagnostics (Torque Profile and Step Response)	✓	✓	✓	✓
Standard Diagnostics (Partial Stoke Test)	✓	✓	✓	✓
Status Monitor	✓	✓	✓	✓
Configuration	✓	✓	✓	✓
Calibration	✓	✓	✓	✓
Database with Number of Tags	Unlimited	Unlimited	Unlimited	Unlimited
HART® Modem	60 days Trial	✓	✓	✓
HART Multiplexer	60 days Trial	✓	✓	Not applicable
FF Modem	60 days Trial	✓	✓	✓
Trends Analysis	60 days Trial	✓	✓	✓

2.2 Activating Basic SOLO/Temporary License

DCMlink provides Basic SOLO license free along with a time-limited use of certain features that are available in the Advanced/SNAP-ON/ DTM license.

NOTE:
By default, DCMlink Standard (Basic SOLO) provides a 60-day trial with Advanced, SNAP-ON and DTM license features. After the 60-day trial period, the user needs to request a permanent license for continued feature benefits

a. Click on Free/Trial License button and click Next.

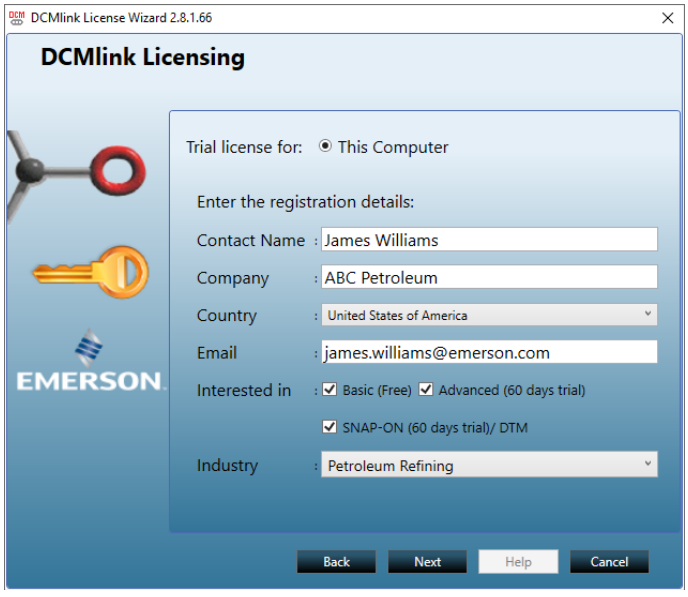
Figure 14. Basic (SOLO) License

b. Fill in all details then click the **Next** button.

Figure 15. Basic (SOLO) License Loaded

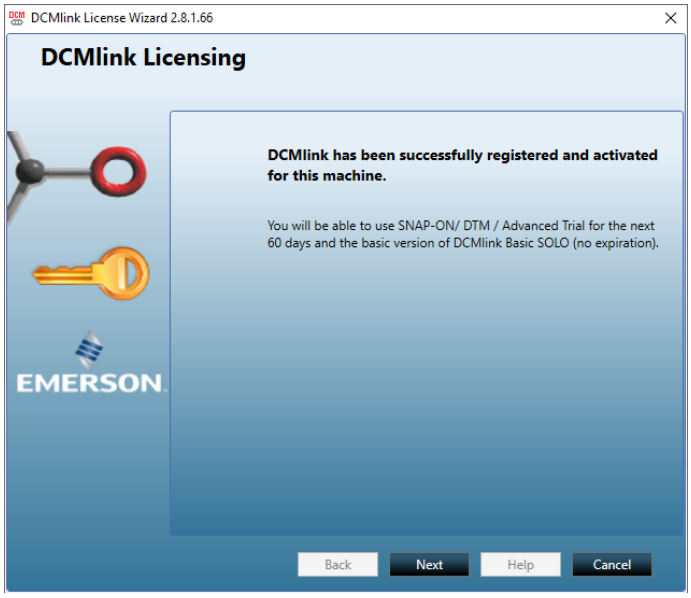
2.2.1 Confirm all user details and agree to Emerson Data Privacy Policy.

Figure 16. Basic (SOLO) License is Complete



2.2.2 License Manager will try to connect with the Emerson server. As soon as internet connectivity is present, the Trial license will be activated.

Figure 17. Basic (SOLO) License Activated



2.2.3 If internet connectivity is not present, save the Registration file and follow the steps to activate Basic license for Remote Computer.

Figure 18. Licensing Without Internet Connection

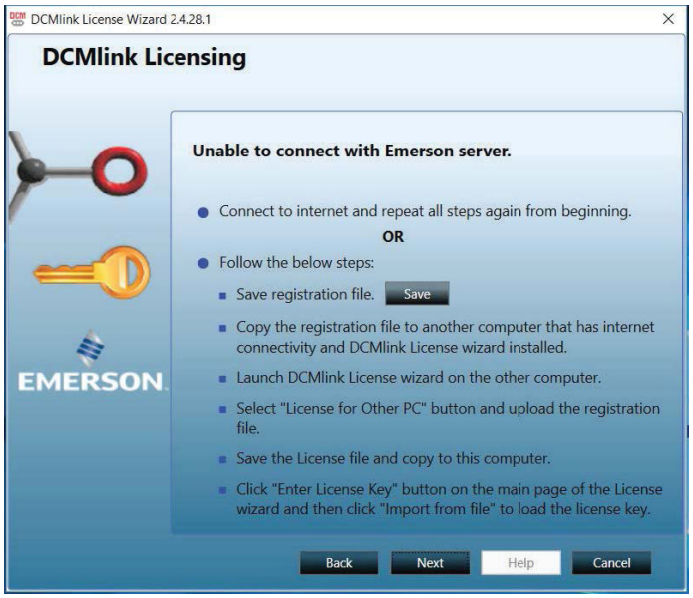
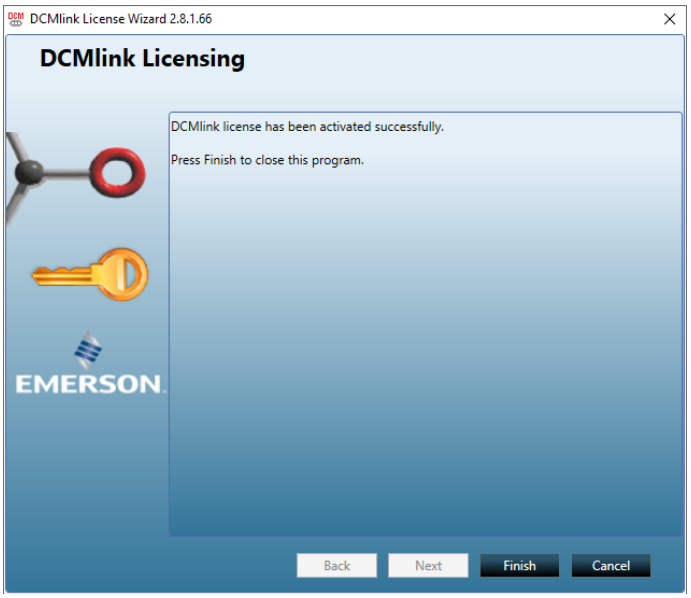


Figure 19. Save License Registration File

Figure 20. Complete License



2.3 Obtaining Your Advanced/SNAP-ON/ DTM License

2.3.1 Double click the DCMlink icon. The user will be prompted to run the License Wizard and click **Yes**.

Figure 21. Running License Wizard

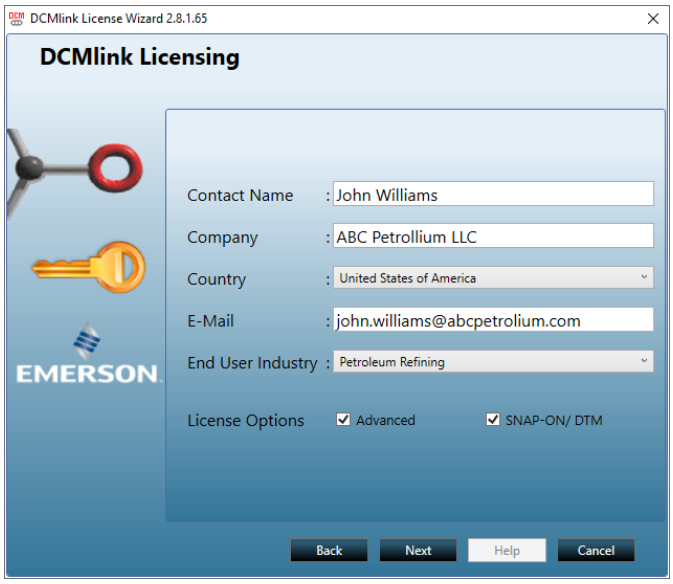
2.3.2 Next click on "$ Premium License" button.

Figure 22. Request New License

2.3.3 Enter the contact details. All fields are required as this information will be used to request a license key.

2.3.4 Select the License Option requested, then click **Next**.

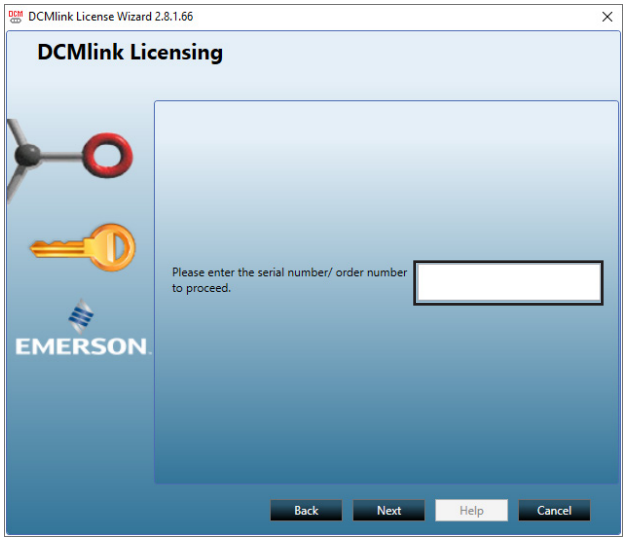
Figure 23. Review License Information



NOTE:
A purchase order is required to be placed before requesting an Advanced /SNAP-ON/ DTM license.

2.3.5 Provide the serial number/order number to proceed.

Figure 24. Input Serial Number/Order Number



2.3.6 If it is an Advanced, SNAP-ON or DTM license request, after the registration form is completed, the information can be saved and/or printed. Click **Save** to generate a license key request file. Once complete, click **Next**.

Figure 25. Save License Registration file

2.3.7 The license request form has been completed. Click **Finish**.

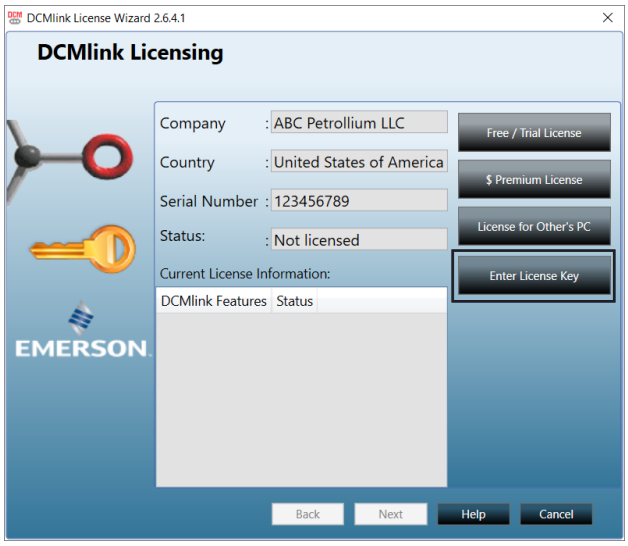
Figure 26. Finishing the License Key Request

2.3.8 To obtain license, send the license registration (.txt) or the scanned copy (pdf) of the printed registration file to the email address mentioned in the above screen.

2.4 Activating License Key File

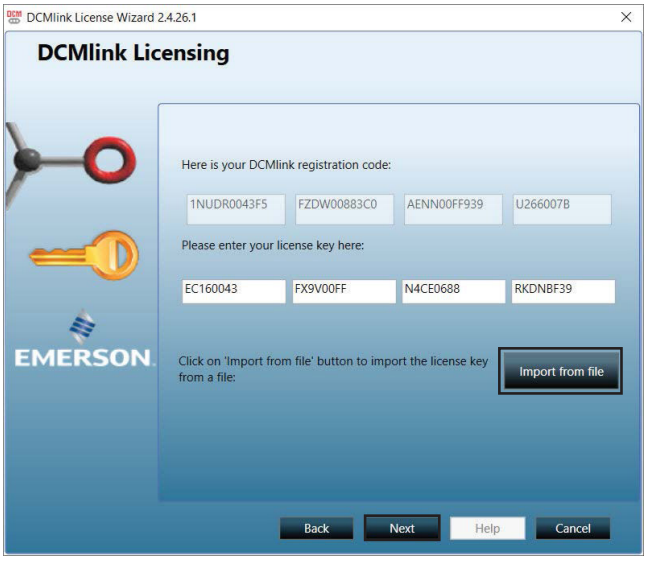
2.4.1 After the user receives the license key file issued by Emerson, please re-run the License Wizard by double-clicking on the DCMlink icon, and click **Enter License Key**.

Figure 27. Entering the License Key File



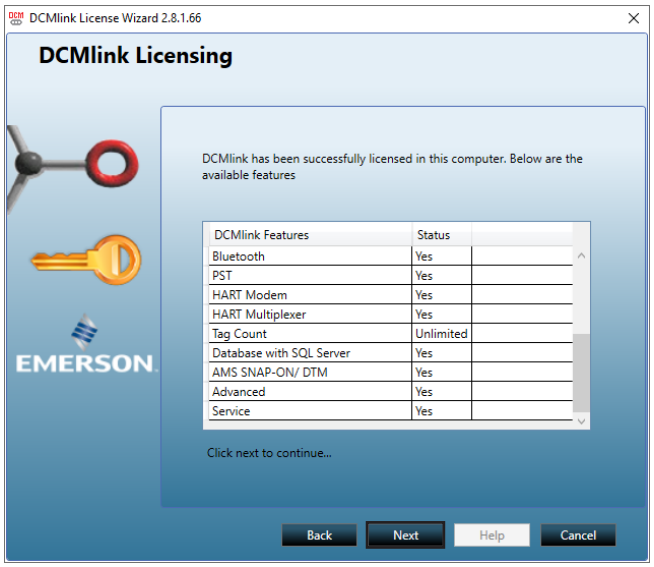
2.4.2 Click **Import from File** and select the license key file with the .lic extension. This is the license key file the user received via the DCMlink registration. Once loaded, click **Next**.

Figure 28. Import Existing License Key File



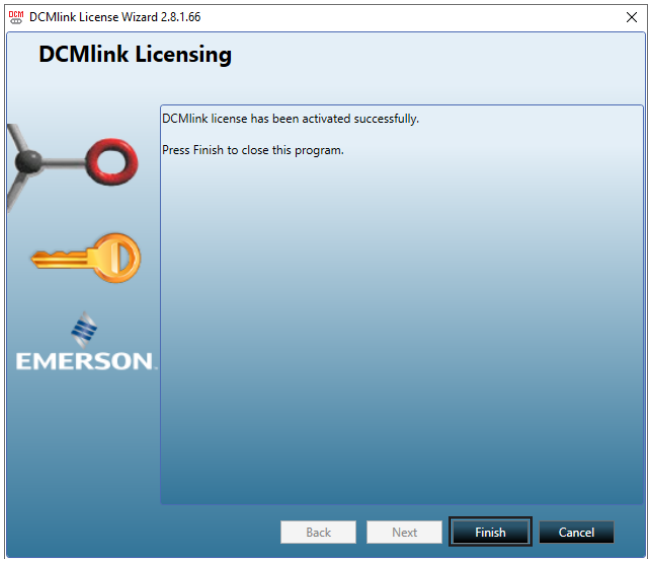
2.4.3 Once the license key has been imported, the installed DCMlink features will be shown on this window. Click **Next**.

Figure 29. Available Features Review



2.4.4 DCMlink is now successfully licensed. Click **Finish**.

Figure 30. Complete License



2.5 Activate License Key for Other PC

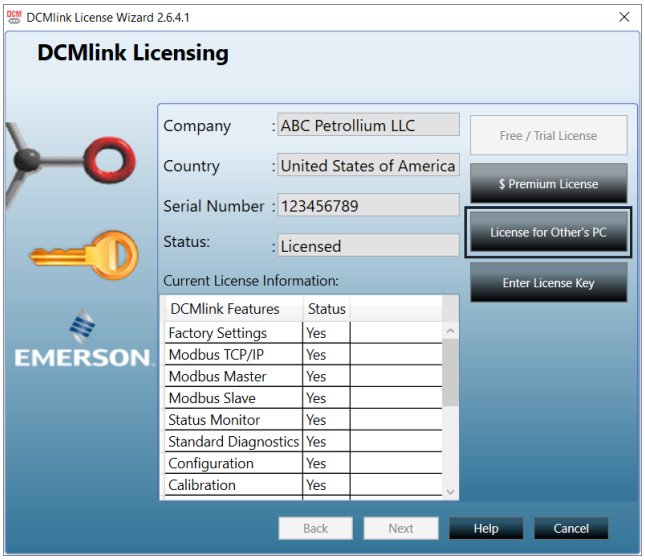
DCMlink allows to generate license key for another computer. To do so, internet connectivity and the other computer's registration file is required.

Follow the steps below to activate this temporary license.

NOTE:
To do so, the computer that generates the license should be connected to the internet. Make sure you have saved the registration file (.txt) from the computer without internet access to the computer with internet access.

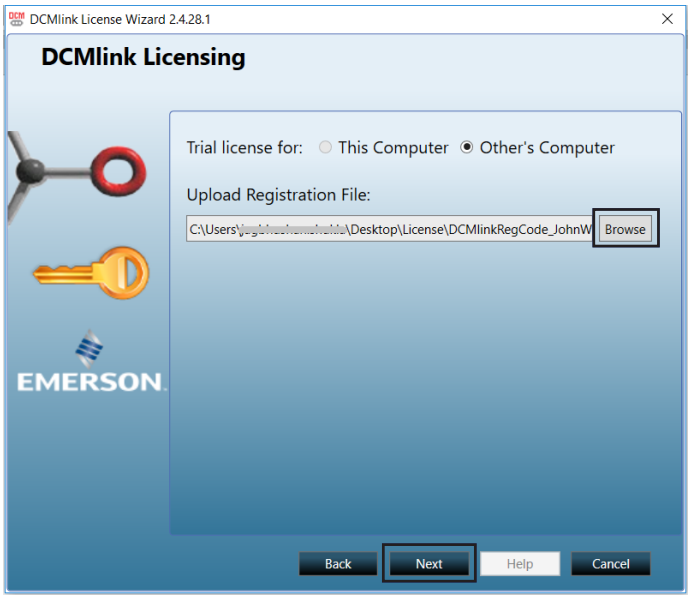
2.5.1 Click on License for Other's PC button and click **Next**.

Figure 31. Creating a License for Another Computer



2.5.2 Upload the registration file of the computer whose license needs to be generated and click **Next**.

Figure 32. Uploading the Other PC's Registration File



2.5.3 Verify all details and agree to Emerson Data Privacy Policy and click **Next**.

Figure 33. Filling in All the Details in the Form

2.5.4 Save Basic (SOLO) License key and click **Next**.

Figure 34. Completion of Registration

NOTE:

1. Carry this license file to your system.
2. To activate the license on your system, follow all steps mentioned in Section 2.4 Activating License Key.

Section 3: Setting Up DCMlink Networks

NOTE:
For Modbus, there are three types of connections available. First is the Modbus Master, second is the RDM slave mode (only for TEC2000) and third one is the TCP/IP (user needs CAM09/209 card).

3.1 Setup Network for Modbus Master

NOTE:
Refer to the following wiring connection to connect DCMlink to the respective actuator.

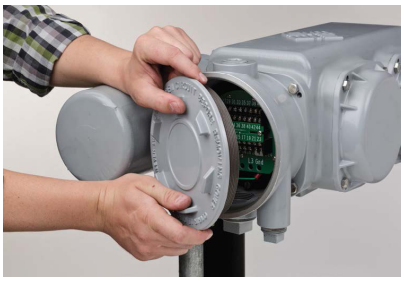
⚠ CAUTION

Switch off the actuator before working on the wiring connections.

1. **TEC2000:**
   Separate Terminal Chamber (STC) contains terminal block for wiring connection. Pinch the bar to rotate the STC cover in a counter-clockwise direction, this will open the STC cover and the user will see the terminal block in STC.

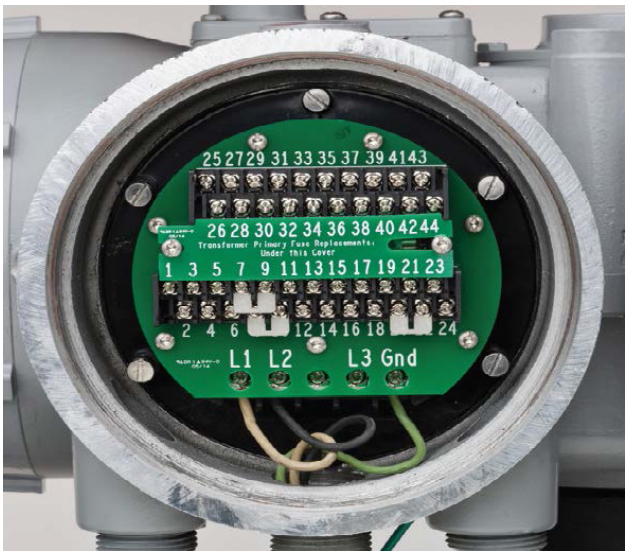
Figure 35. TEC2000 Terminal Chamber

Figure 36. Opening TEC2000 Terminal Chamber



a. STC – With Terminal Block Numbering

Figure 37. Opened TEC2000 Terminal Chamber



2. **TEC2:**
Please refer to the following for different wiring connections:

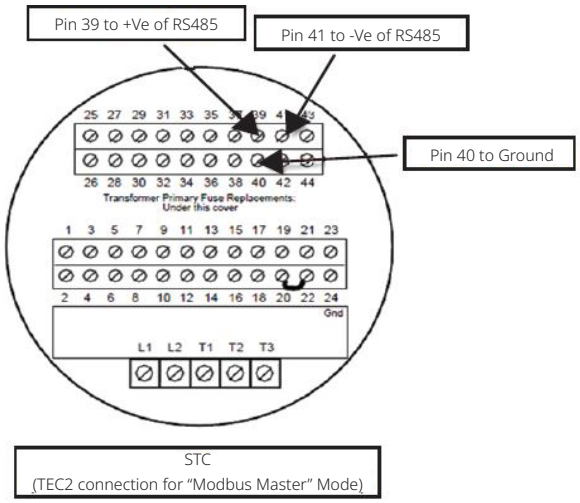
a. For **Modbus Master** Mode:

- Pin 39 to +Ve of RS485
- Pin 41 to -Ve of RS485
- Pin 40 to Ground of RS485 (Optional)

NOTE:

The pins above should be used only for the CAM205 or CAM228.
For the TEC2, the recommended connection is the dedicated **DCMlink port**.
For more information on the pin layout, consult the TEC2 Instruction and Operation Manual.

Figure 38. Modbus Connection on STC



b. For **Modbus Master** Mode (Using DCMlink dedicated pins). Another way to connect DCMlink with TEC2 is by using DCMlink dedicated pins (36, 37 and 38). The following are the dedicated pin details:

- Pin 36 to +Ve of RS485
- Pin 38 to -Ve of RS485
- Pin 37 to Ground of RS485 (Optional)

NOTE:
For this section "b" only, connection baud rate is 115200.

c. For **Modbus Master** Mode on HART CAM216:

- Pin 39 to +Ve of RS485
- Pin 40 to -Ve of RS485

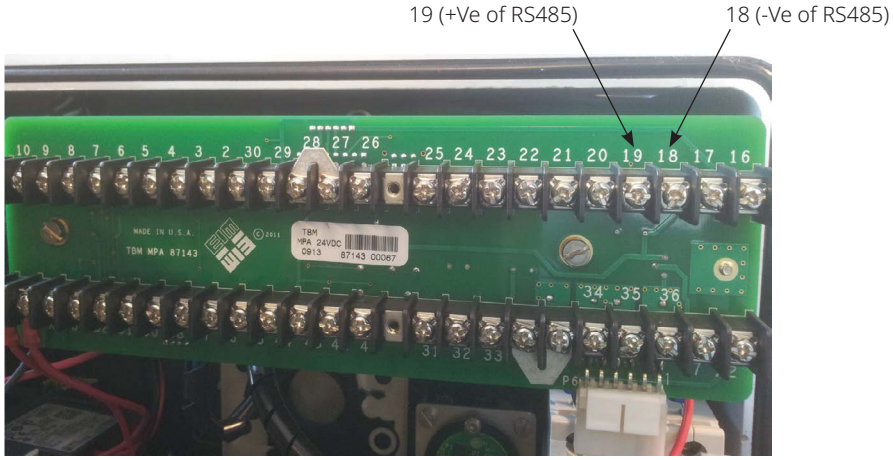
d. After wiring the connections with the actuator, check the serial port number on the PC. For this, right-click on **My Computer** and go to **"Manage > Computer Management > System Tools > Device Manager > Ports > Communication Port (Port Number)".**

3. **MPA:**

Table 2. CAM Card Pin Configuration

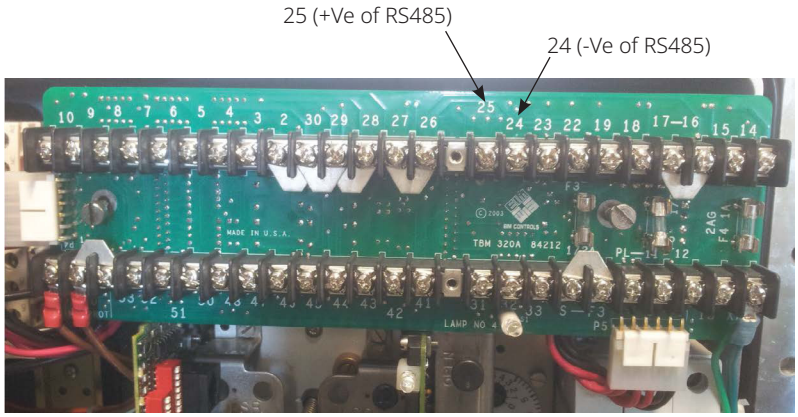
Without CAM05, or any other protocol CAM card	With CAM05, or any other protocol CAM card
Pin 19 is +Ve of RS485 Modem	Pin 25 is +Ve of RS485 Modem
Pin 18 is -Ve of RS485 Modem	Pin 24 is -Ve of RS485 Modem

Figure 39. MPA Modbus Connection



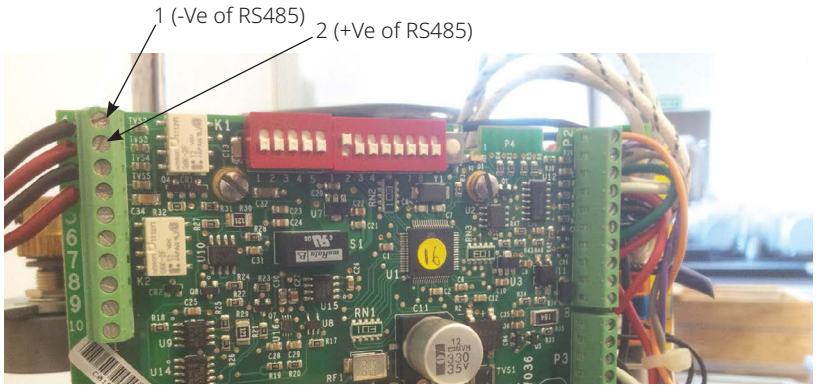
4. **M2CP:**
   - Pin 25 is +Ve of RS485 Modem
   - Pin 24 is -Ve of RS485 Modem

Figure 40. M2CP Modbus Connection



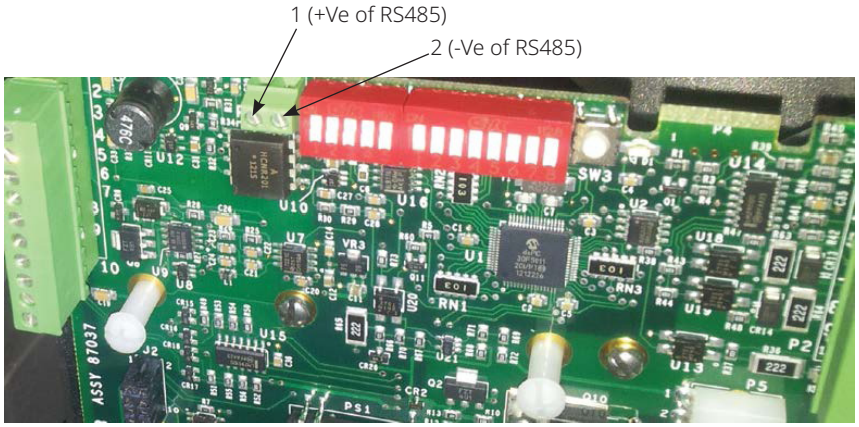
5. **HQDCM32 Series:**
   - Pin 1 is -Ve of RS485 Modem
   - Pin 2 is +Ve of RS485 Modem

Figure 41. HQ DCM32 Modbus Connection



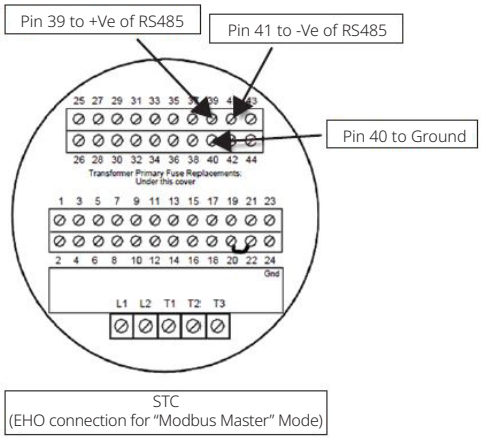
6. **HQDCM33 Series:**
   - Pin 1 is +Ve of RS485 Modem
   - Pin 2 is -Ve of RS485 Modem

Figure 42. HQ DCM33 Modbus Connection



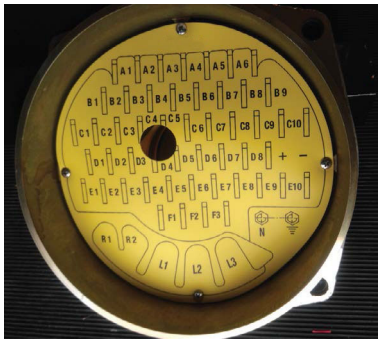
7. **Smart EHO:**
   - — Pin 39 to +Ve of RS485
   - — Pin 41 to -Ve of RS485
   - — Pin 40 to ground of RS485 (Optional)

Figure 43. Smart EHO Modbus Connection



8. **XTE3000/ICON3000:**
   - — Pin: A1+, A2- or
   - — Pin: A5+, A6-

Figure 44. XTE3000/ICON3000 Modbus Connection



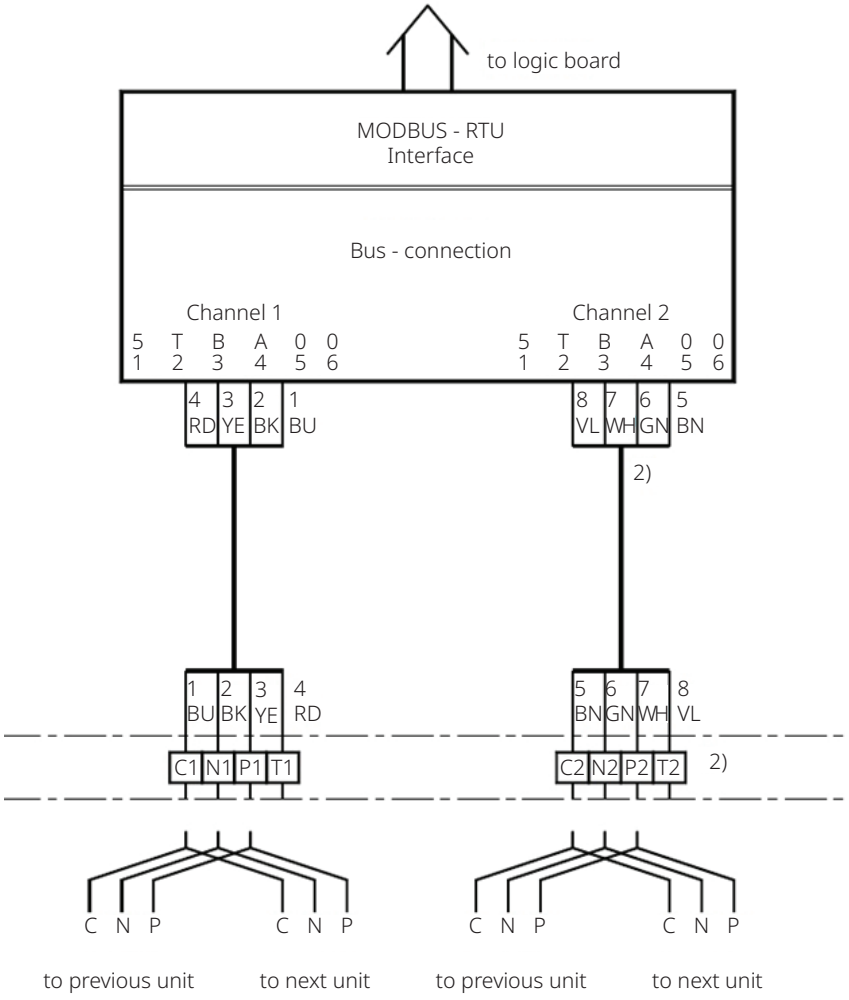
NOTE:
For XTE3000/ICON3000, the user will need the Modbus Bus Card.

NOTE:

- COM port settings should match with device(s)
  - The Baud rate, parity, Stopbits should match
  - All devices connected to the same COM port should use the same settings
  - Use multiple COM ports incase different settings are required

9. **RTS:**

Figure 45. Modbus Connection on RTS Terminal



3.2 Setup Network for Modbus TCP/IP

3.2.1 The user needs to use Modbus TCP/IP CAM card to utilize this feature.

NOTE:
For TEC2000 and TEC2, the user will need to use a CAM209 Card.
For M2CP, MPA, EHO and HQ, the user will need a CAM09 Card.

Figure 46. CAM209 Connected to TEC2000 Actuator

NOTE:
Details on the configuration of CAM09/209 is found on the document.

3.3 Setup Network for RDM

The DCMlink fully supports the RDM mode connection with TEC2000 actuator.

3.3.1 For this, select serial COM Port number and select timeout delay as per actuator COM Port settings.

NOTE:
RDM Slave Mode is only available for the TEC2000 actuator.

3.3.2 DCMlink works with below settings to connect with TEC2000 in RDM mode:

- STC pin numbers:
  - Pin 21 to +Ve of RDM Slave Mode
  - Pin 23 to -Ve of RDM Slave Mode
- Baud Rate: 9600
- Parity: None
- Stop Bits: 1

These parameters are not allowed to be modified.

3.4 Setup Network for Bluetooth

DCMlink allows the detection and configuration of devices connected via Bluetooth. Using the Bluetooth device scanner in the navigation bar, the user can perform a device scan by following the steps and screenshots shown.

NOTE:
The user needs to have Bluetooth enabled on the computer to allow the use of this function. User can check if computer has Bluetooth function enabled or not. If the Bluetooth function is not present, please consult the system administrator or IT.

3.4.1 On the navigation bar, the Bluetooth node will be populated. The name of the Bluetooth node in DCMlink will be the same as the name of the Bluetooth at the operating system level.

NOTE:

The user cannot change the name of the 'Bluetooth actuator identifier' from DCMlink, but it is possible to change it from the operating system.

Figure 47. DCMlink Home Screen with Bluetooth

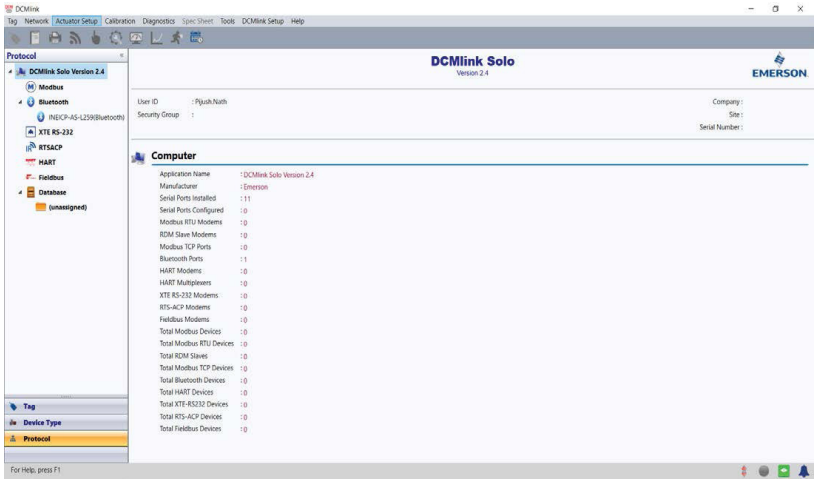
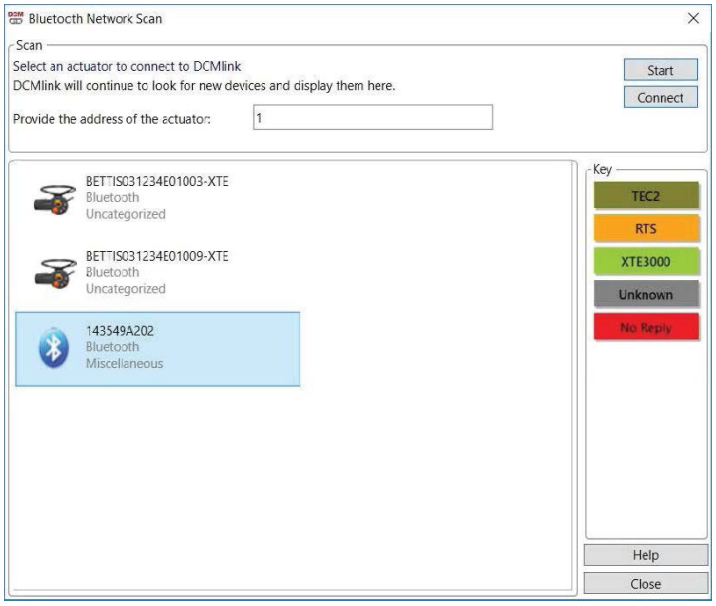


Figure 48. Scanning the Bluetooth Network



3.5 Setup Network for HART

Attaching HART Modem

A HART modem is a communication device that allows DCMlink to communicate with the actuator. The following section provides necessary information for attaching the HART modem to the computer and actuator.

NOTE:

The HART modem drivers needed for the HART modem to work are installed during the DCMlink installation

3.5.1 HART Modem Installation for DCMlink SOLO

HART modem attaches to the USB port usually found on the back of the computer or the serial port.

- Locate the serial port or USB port where modem will be connected.
- Make note of the port where the HART modem is attached.
- Attach HART modem directly to the serial port, the USB port, or to a cable connected to serial port or USB port.
- Use the modem cable assembly to connect HART modem to the actuator, or to signal wiring.
- To communicate with actuator, locate the signal wires or the terminals of the actuator.
- Clip cable assembly to wires or terminals.
- Refer to document **HART IOM** for more information on using the HART modem.

3.5.2 HART Modem Installation for DCMlink SNAP-ON

The HART modem attaches to the USB port usually found on the back of the computer or the serial port.

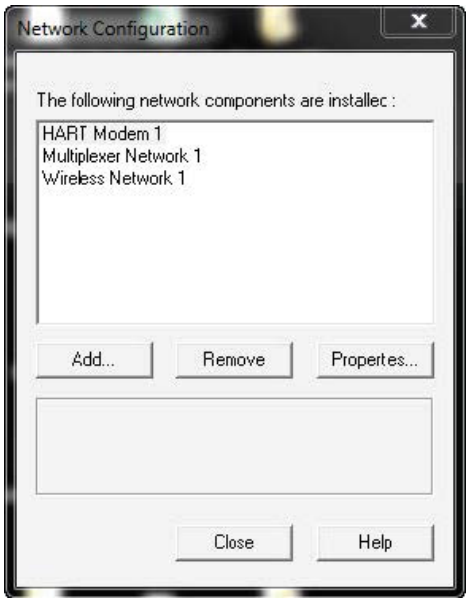
- Locate serial port or USB port where modem will be connected.
- To configure HART modem, refer to AMS manual.

Steps for installing stand-alone AMS:

Before adding DD to AMS, HART Modem on AMS needs to be configured. (Ensure that HART Modem drivers are already installed before configuring Modems on AMS). Follow steps below:

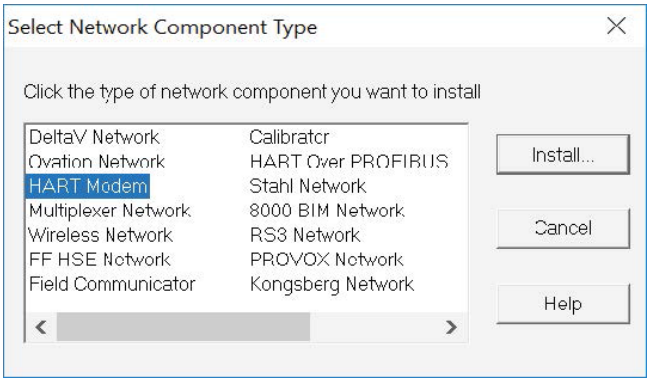
- Network Configuration:
  - Open Start Menu
  - Click Programs
  - Click AMS Device Manager
  - Click Network Configuration

Figure 49. Network Configuration



  - Select Network Component Type and click Add
  - For HART device: HART Modem

Figure 50. Select Network Component Type



— Click Install and follow screen instructions.

Figure 51. Add HART Modem Wizard-Start

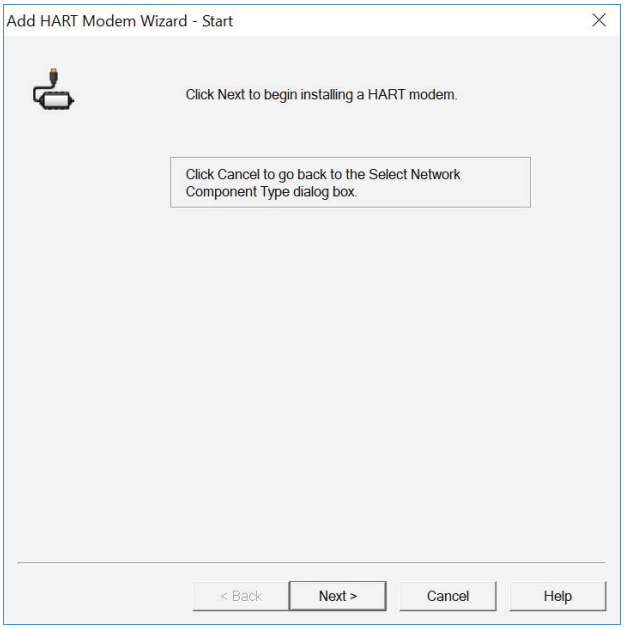


Figure 52. Add HART Modem Wizard-Modem Name

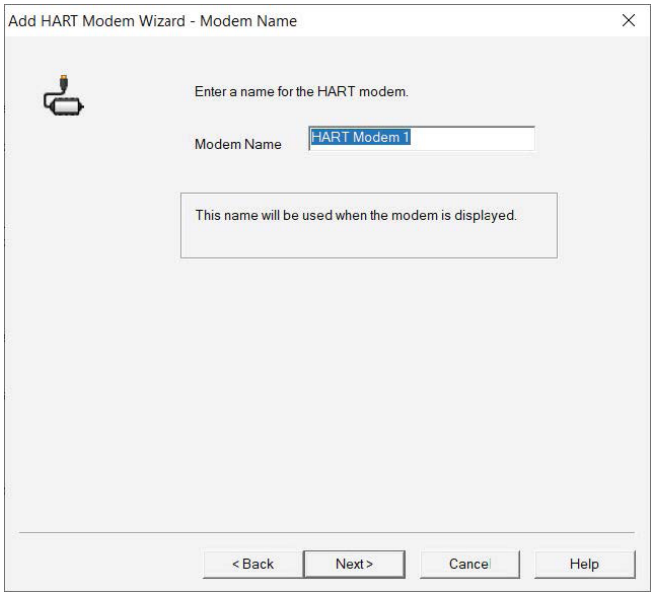
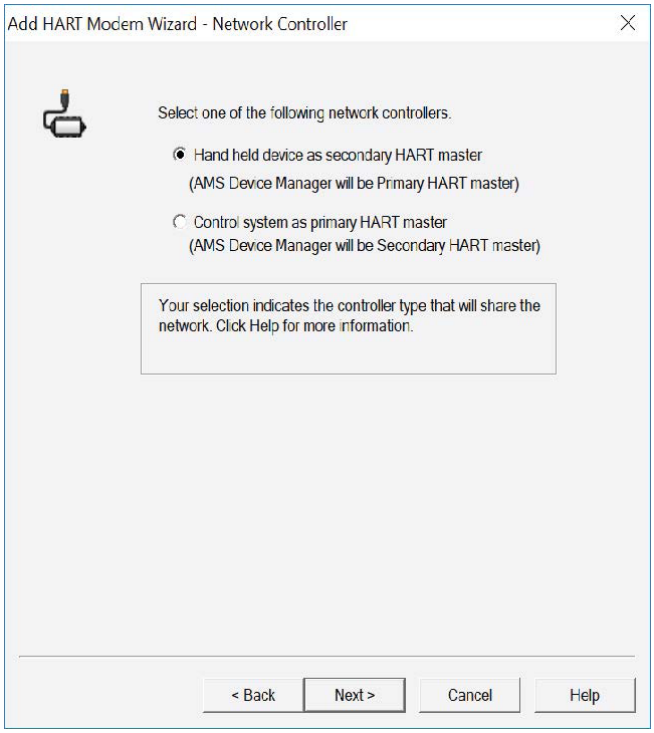


Figure 53. Add HART Modem Wizard-Network Controller



— Select one COM Port from the list.

Figure 54. Add HART Modem Wizard-Connection

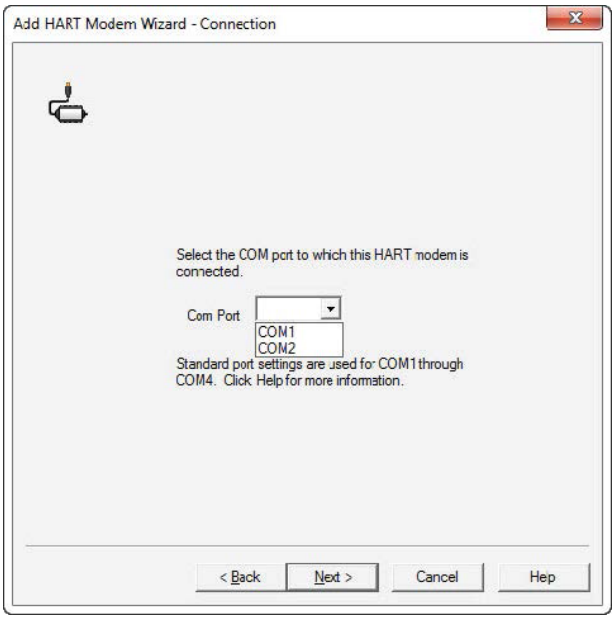
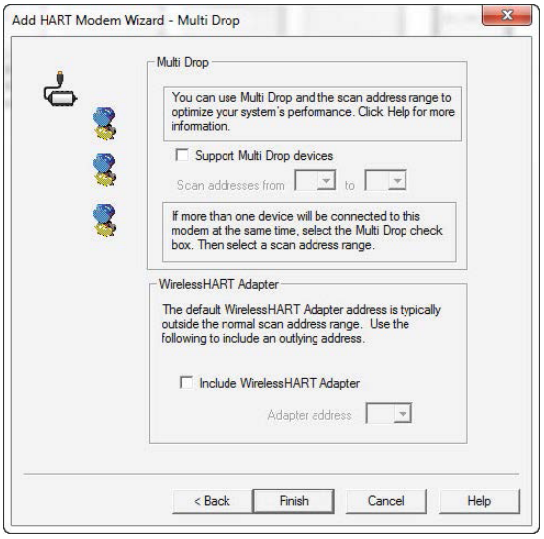


Figure 55. Add HART Modem Wizard-Multi Drop



— When finished HART Modem will be shown on the Network Configuration Screen.

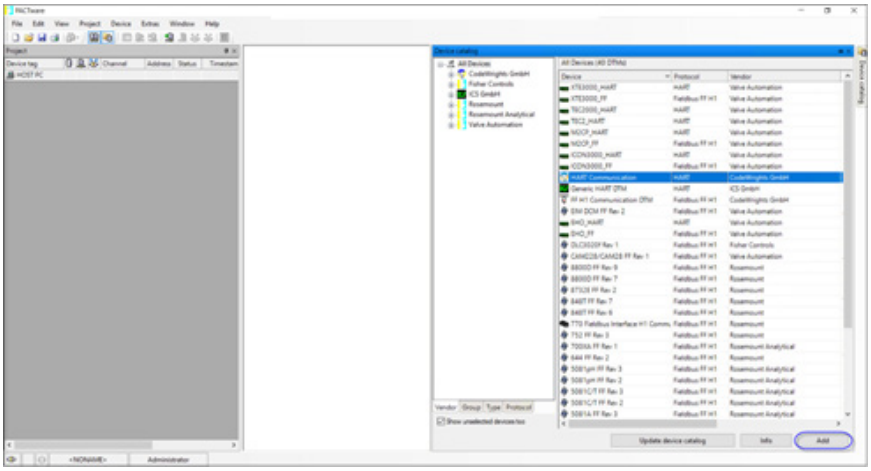
Figure 56. Network Configuration

3.5.3 HART Modem Installation for DCMlink DTM

Steps to Launch DCMlink DTM over HART Protocol:

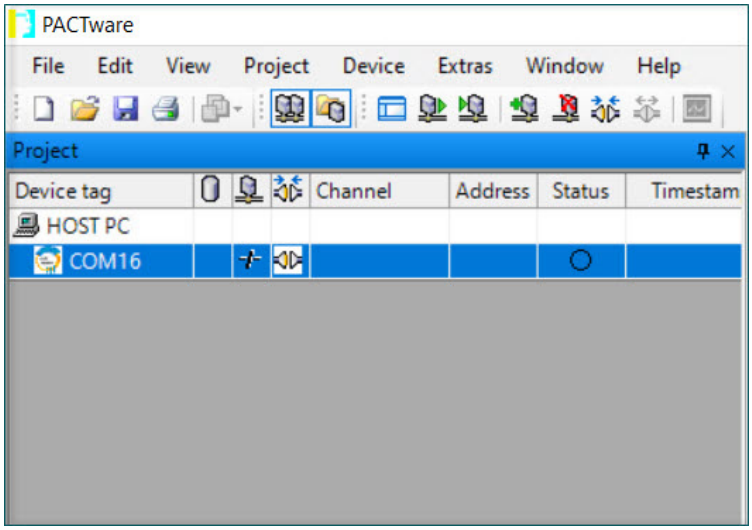
1. Select the COM DTM and click on Add button.

Figure 57. Example for HART Connection (1)



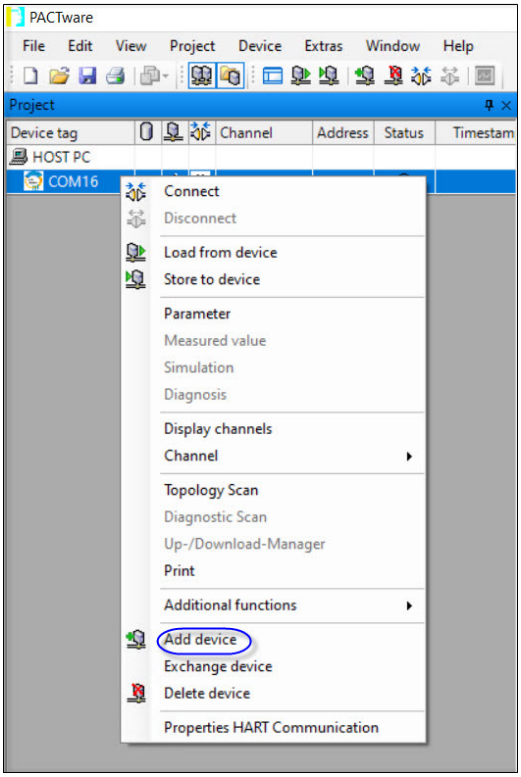
2. COM DTM gets added in the tree view as below.

Figure 58. Example for HART Connection (2)



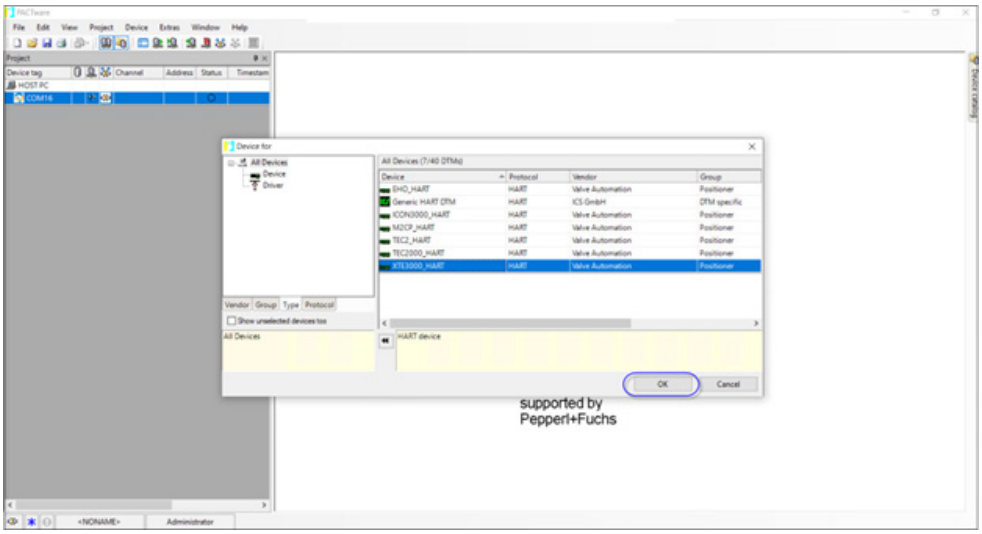
3. With the COM DTM highlighted, right click on it and select Add Device.

Figure 59. Example for HART Connection (3)



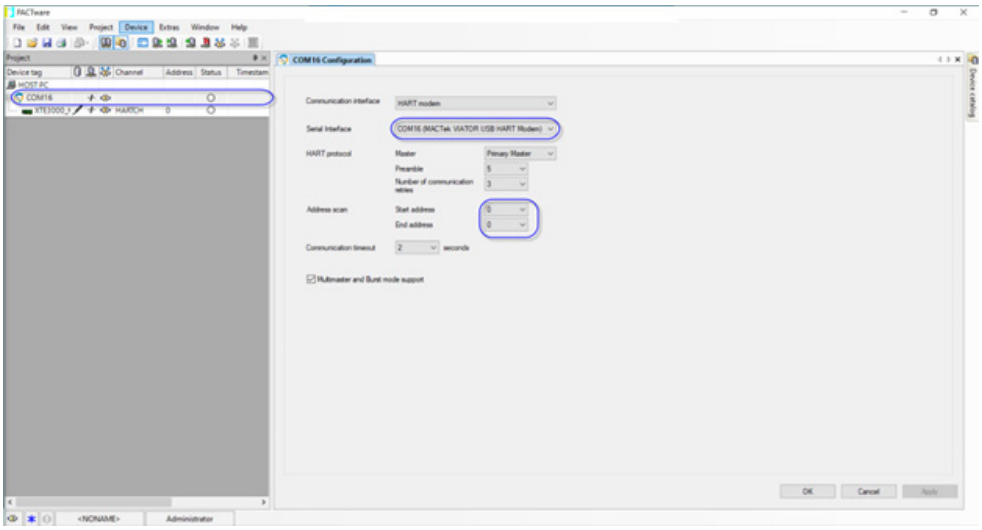
4. Click on the appropriate Device DTM and select OK.

Figure 60. Example for HART Connection (4)



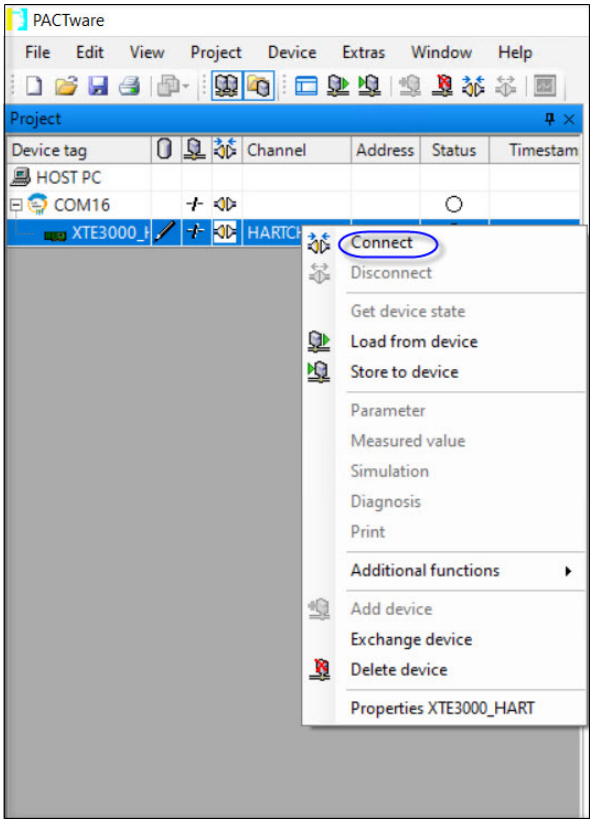
5. Double click on COM DTM and set the appropriate settings for the COM DTM and Device DTM.

Figure 61. Example for HART Connection (5)



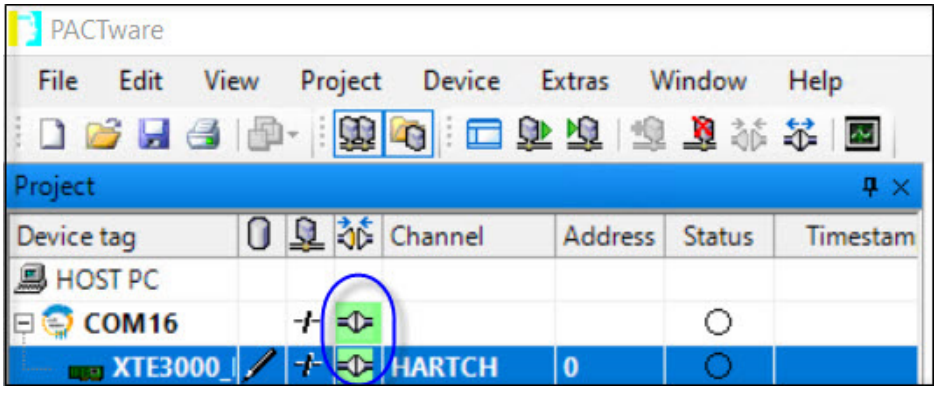
6. With the Device DTM highlighted, right click on it and select Connect as shown in Figure 62.

Figure 62. Example of HART Connection (6)



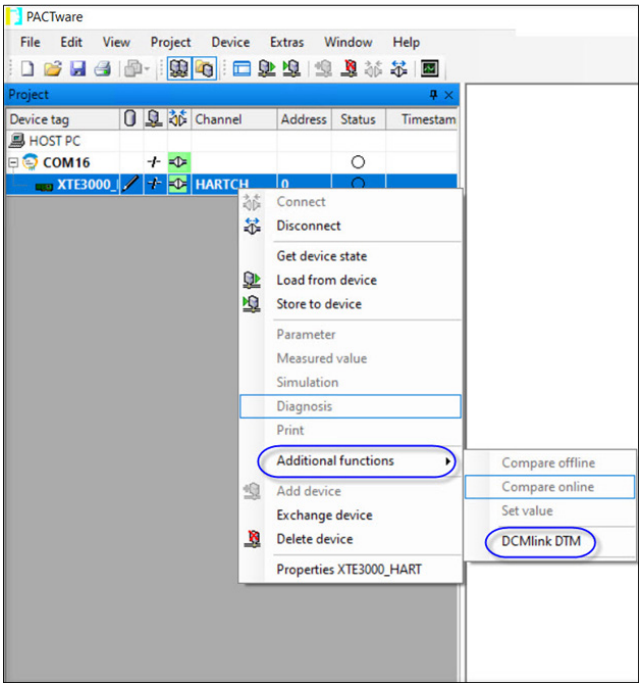
Connection will establish:

Figure 63. Example of HART Connection (7)



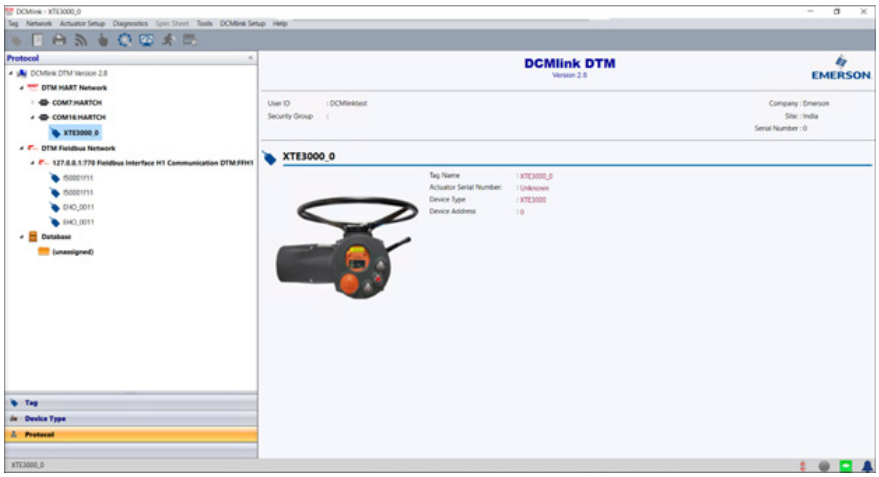
7. Once connected, right click on connected Device DTM and select “Additional functions” menu to access “DCMlink DTM” as shown in Figure 64.

Figure 64. Example for HART Connection (8)



8. The DCMlink DTM will launch in a new window. All devices currently connected in the FDT frame application will show in the tree menu to the left of the DCMlink DTM window, as shown in Figure 65. User can launch Status Monitor, Detailed Setup, Factory Setting and Profile screen.

Figure 65. DCMlink DTM



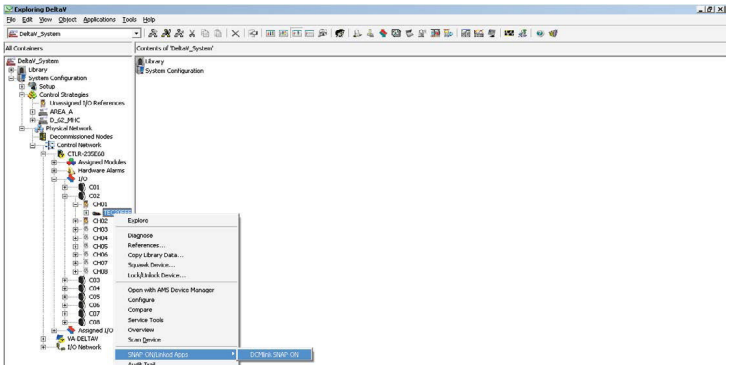
3.5.4 Multiplexer Networks for DCMlink SOLO and SNAP-ON

For detailed installation, please see the DCMlink Help Guide.

3.5.5 Setup DeltaV HART Network

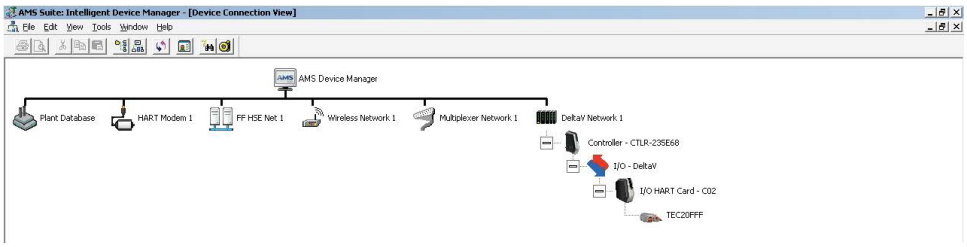
- Connect actuator, DeltaV™ HART Network.
- Using DeltaV Explorer navigate to actuator.

Figure 66. DeltaV Explorer



- Right click on the actuator and from Context menu user can launch AMS. Once AMS is launched, actuator can be seen under **Navigation view of AMS**.

Figure 67. Actuator on AMS



- User can now **launch DCMlink.**

3.6 Setup Network for FOUNDATION Fieldbus (FF)

There are two ways by which DCMlink communicates with actuators using FOUNDATION™ Fieldbus.

- SOLO:
  - Emerson Modem - The DCMlink software allows users to connect to the FF770 modem.
- SNAP-ON:
  - Emerson Modem
  - NI Modem
  - DeltaV
- DTM:
  - Emerson Modem
  - Non-Emerson DCS

Figure 68. Emerson Fieldbus Interface Modem

The user needs to have the software for providing power to the FF modem.

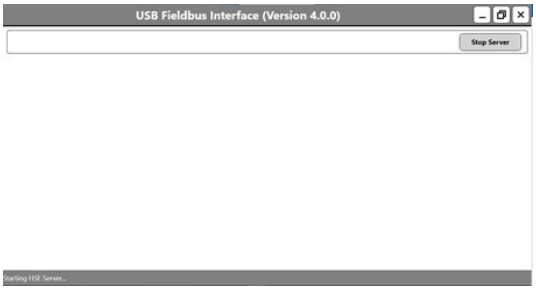
USB Fieldbus Interface Software Path:
https://www.emerson.com/en-us/catalog/ams-aw7060ffusb

Open the package and install it.

Step 1. After successful installation, open the software “USB Fieldbus Interface”.

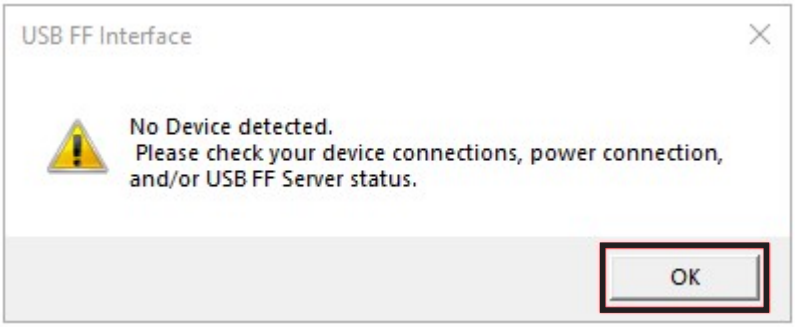
Step 2. Upon opening the software, the screen below will appear where the server is automatically started. It will then start to scan for the FF modem connected to the PC.

Figure 69. USB Fieldbus Interface



Step 3: If the scan for the FF Modem fails and it displays such message, then click on "OK" and then Click on "Stop Server" and again click on "Start Server".

Figure 70. Configuring Emerson Fieldbus Interface Modem (1)



Step 4: If the error continues, recheck the modem connection and restart the application.

Step 5: After the modem is scanned successfully, user needs to supply power to the modem as FF modem draws its power from the USB itself. So tick the check box corresponding to the modem.

Figure 71. Configuring Emerson Fieldbus Interface Modem (2)

Step 6: As user has provided power to the modem, user needs to eject and reconnect the USB cable connected to the FF modem.

Step 7: Close and restart the application.

Step 8: After scanning for the modems, now the power supply check box should be ticked. If not, follow steps 5 and 6 again.

Figure 72. Configuring Emerson Fieldbus Interface Modem (3)

Step 9: If the check box is ticked then the device should now be visible.

Figure 73. Configuring Emerson Fieldbus Interface Modem (4)

Step 10: Double click on the device name, you should be able to see the device address of the connected device.

- NI Modem
  - Emerson Modem - The DCMlink software allows users to connect to the FF770 modem.

Figure 74. Configuring NI Modem

The user needs to have the software and drivers for providing power to the FF modem. Driver Path: Open the package and install the drivers.

NI-FBUS Configurator Software Path: https://www.ni.com/en/support/downloads/software-products/download.ni-fbus-configurator-software.html#324337

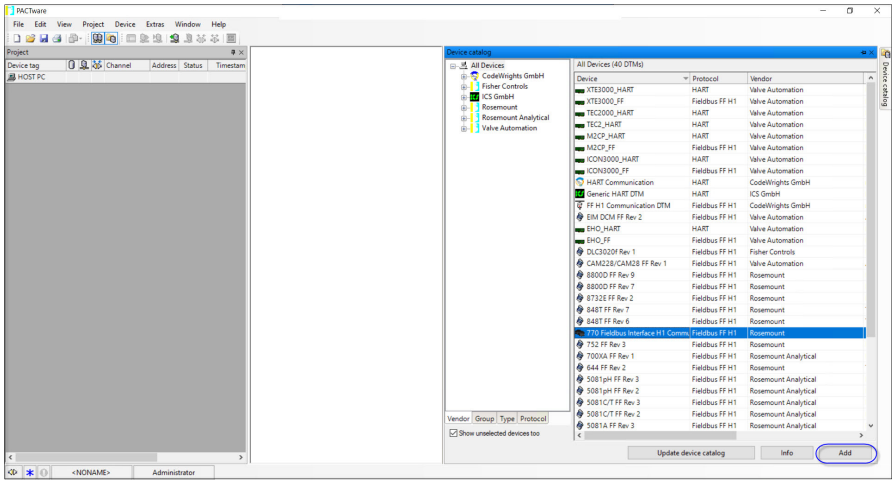
Open the package and install it.

After successful installation, open the software “NI-FBUS Communications Manager” and allow the setup to run.

3.6.1 Foundation Fieldbus Setup on DTM

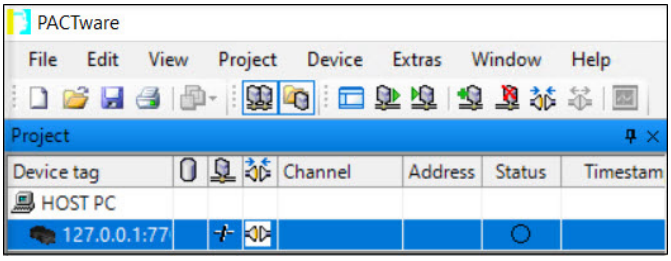
1. Select the COM DTM and click on Add button.

Figure 75. Example for FF Connection (1)



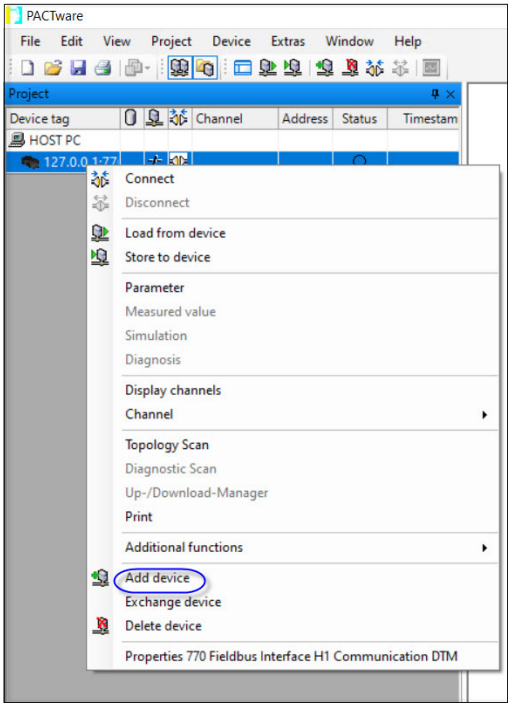
2. COM DTM gets added in the tree view as below.

Figure 76. Example for FF Connection (2)



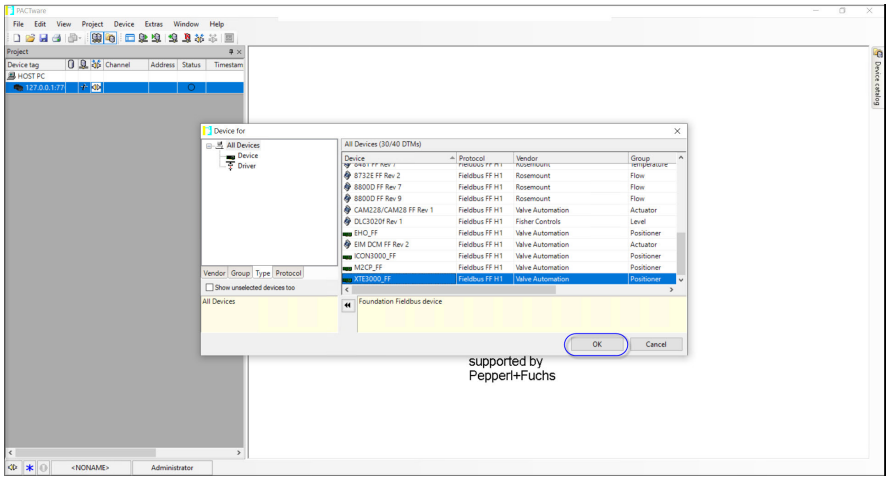
3. With the COM DTM highlighted, right click on it then select Add Device.

Figure 77. Example for FF Connection (3)



4. Click on the appropriate Device DTM and Select OK.

Figure 78. Example for FF Connection (4)



5. Set the appropriate settings for the COM DTM and Device DTM.
6. Right click on COM DTM and set Device DTM address.

Figure 79. Example of Set Device DTM Address (1)

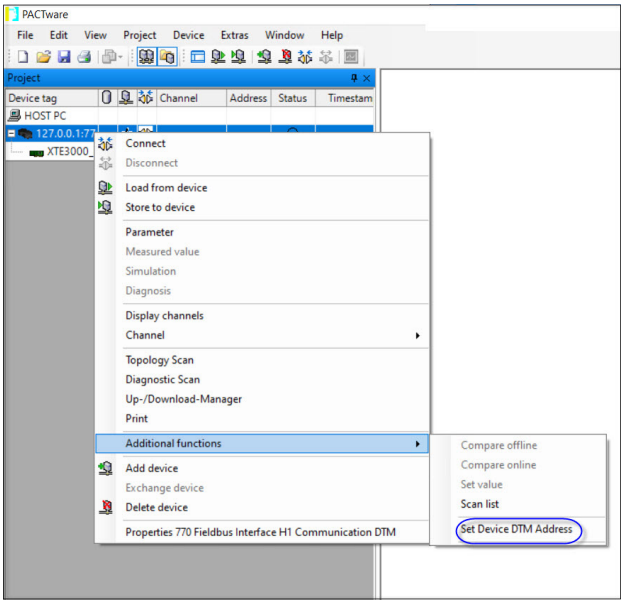
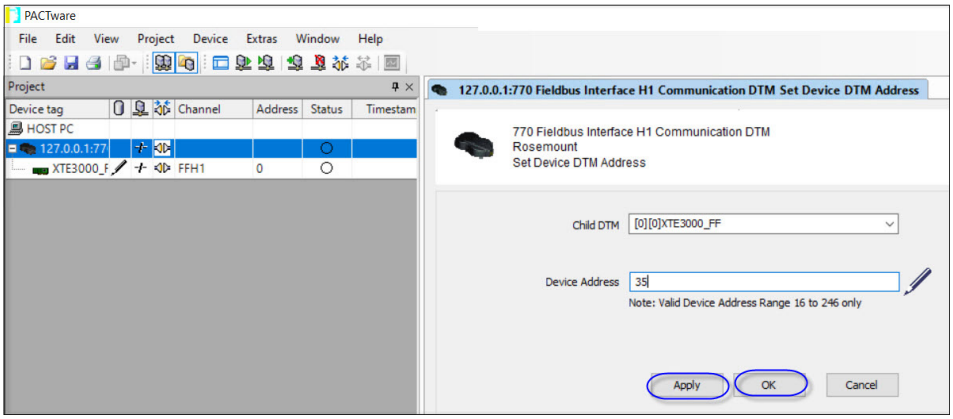
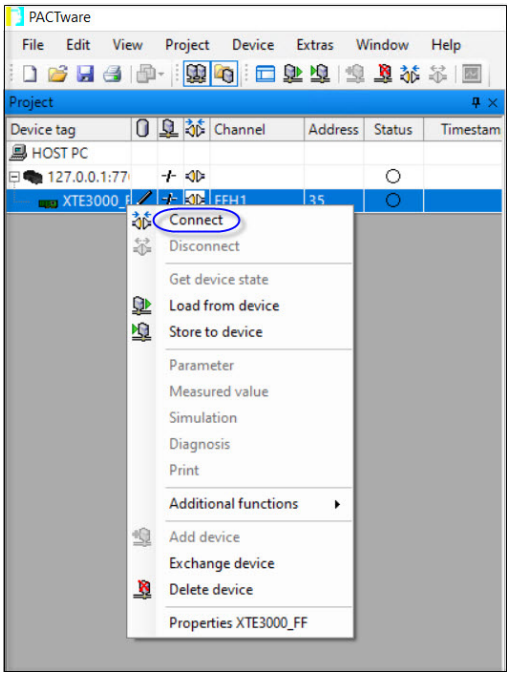


Figure 80. Example of Set Device DTM Address (2)



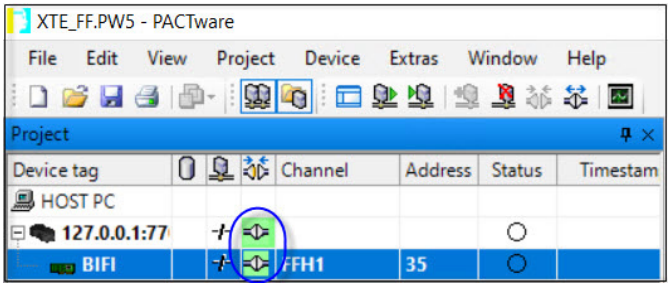
7. With the Device DTM highlighted, right click on it and select Connect as shown in Figure 81.

Figure 81. Example for FF Connection (5)



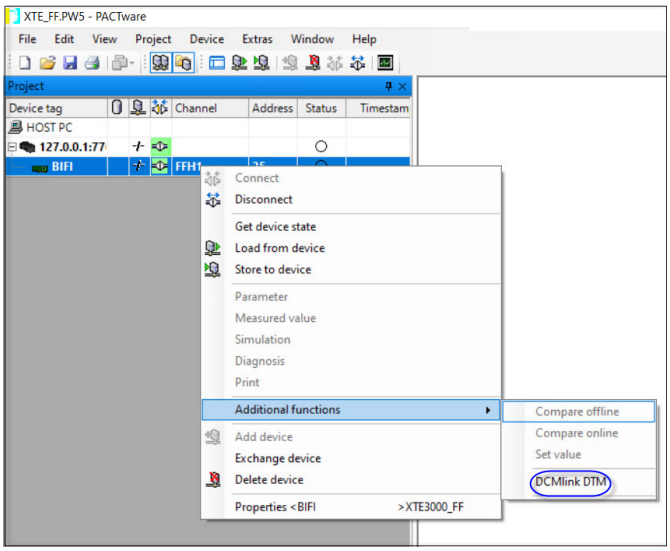
8. Connection will establish.

Figure 82. Example for FF Connection (5)



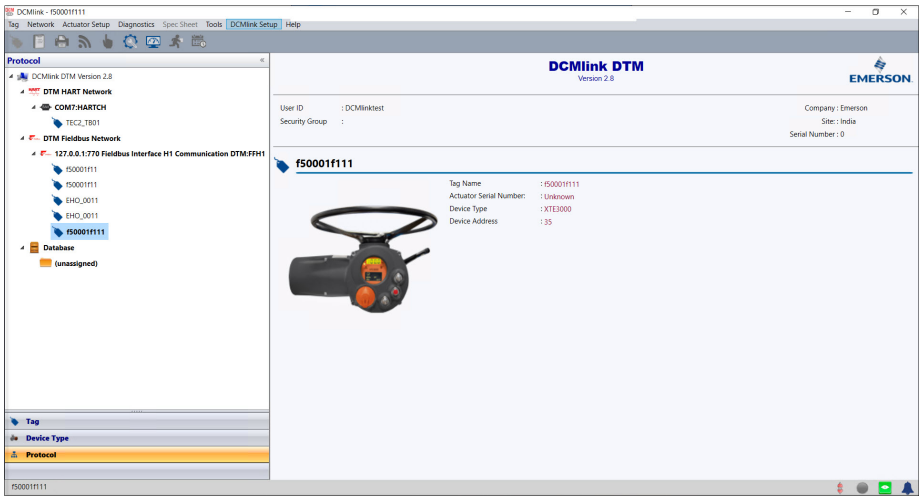
9. Once connected, Right click on connected Device DTM and select “Additional functions” menu to access “DCMlink DTM” as shown in Figure 83.

Figure 83. Example for FF Connection (6)



10. The DCMlink DTM will launch in a new window. All devices currently connected in the FDT frame application will show in the tree menu on the left side of the DCMlink DTM window, as shown in Figure 84. User can launch Status Monitor, Detailed Setup, Factory Setting and Profile screen.

Figure 84. DCMlink DTM



3.7 Setup Network for AMS SNAP-ON

AMS SNAP-ON is a software application that is installed as an integral part of AMS Device Manager to extend its functionality. AMS SNAP-ON adds the diagnostic test capabilities of DCMlink software to AMS Device Manager.

NOTE:

A USB hardware key is not used for installing AMS DCMlink SNAP-ON. However, AMS Device Manager must be licensed for the AMS DCMlink SNAP-ON. To install AMS DCMlink SNAP-ON, user must first have installed a properly licensed copy of AMS Device Manager.

3.7.1 Installing DCMlink SNAP-ON

Review the above sections in this document to request and install the DCMlink SNAP-ON license

3.7.2 Starting AMS DCMlink SNAP-ON

⚠CAUTION

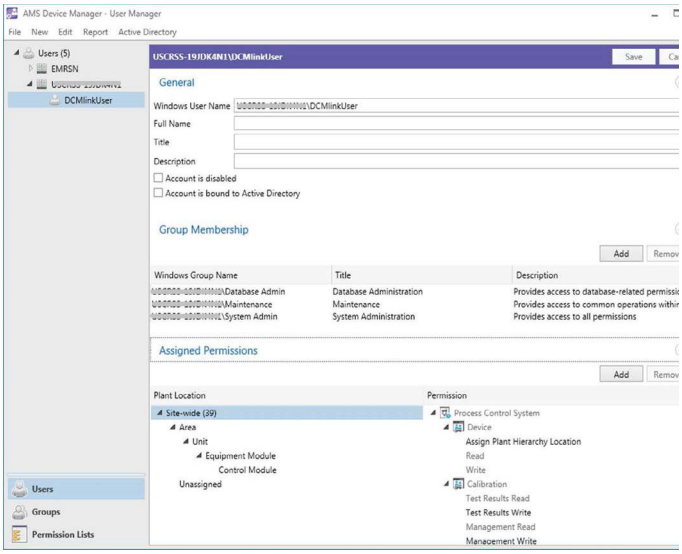
Do not run DCMlink SOLO at the same time when using AMS Device Manager or AMS DCMlink SNAP-ON. Running both simultaneously may cause communication errors.

NOTE:

To successfully use DCMlink SNAP-ON, user must be familiar with using AMS Device Manager. Refer to the **AMS online User's Guide.**

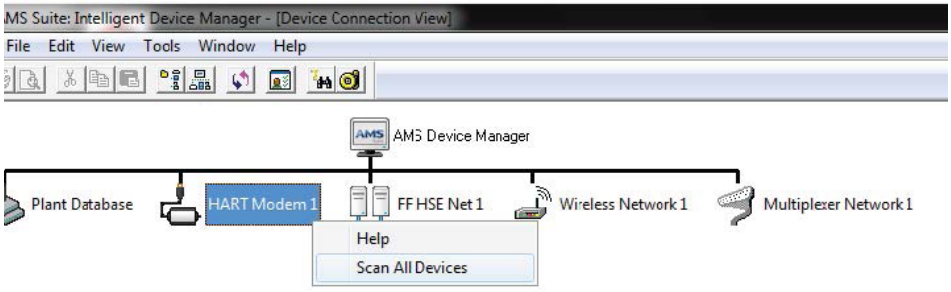
1. To make DCMlink SNAP-ON work on AMS 12.5 or below, please ensure to add Computer-Name (DCMlinkUser) as the domain to the AMS User Manager dialog. After adding the user to the AMS, make sure to add groups and select all groups for the DCMlinkUser, followed by granting of permissions. See Figure 85 for a screen capture.
2. For AMS 13.0 and above, add user login to AMS User Manager dialog. This will launch AMS 13.0 and above using the user login credentials directly from the system.

Figure 85. AMS Device Manager -User Manager



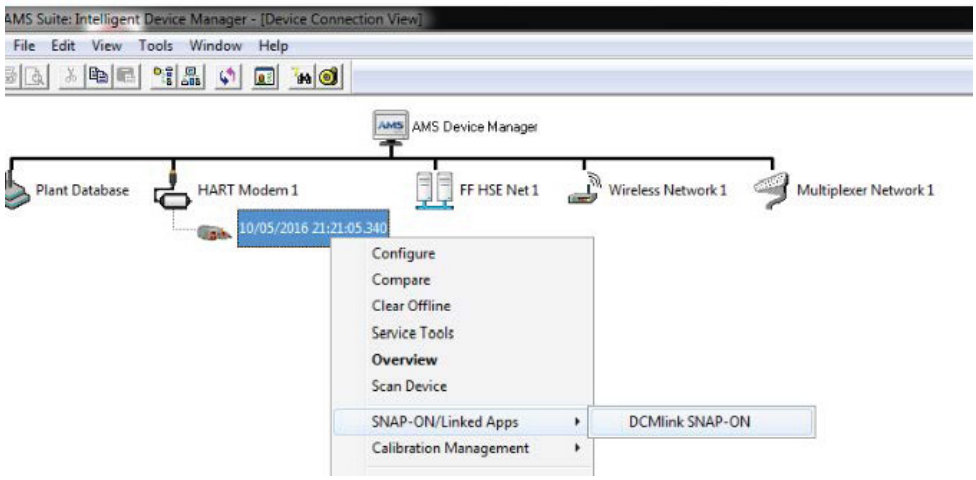
- Start AMS Device Manager by selecting **Start > Programs > AMS > AMS system** from the Windows taskbar.
- The AMS Explorer or Device Connection View window displays.
- AMS displays the communication devices (modem, multiplexer) that are connected to the PC running AMS and the AMS DCMlink SNAP-ON. Right click device icon and select **Scan All Devices** to locate connected HART instruments.

Figure 86. AMS Device Manager Device Connection View



- When the actuator icon appears, right-click the actuator icon and select **SNAP-ON/Linked Apps > DCMlink** from the context menu.

Figure 87. Right-Click Communications Device Icon to Open Menu



3.8 Setup Network for Device Type Manager

- **General Instructions**

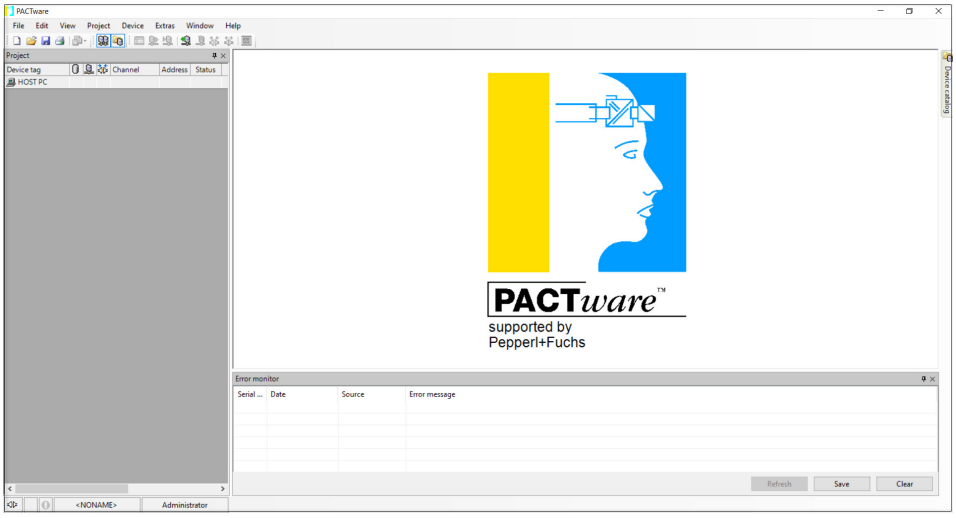
NOTE:
Please refer to the individual network setup section of HART or FF for detailed instructions on SNAP-ON installation

Steps to Launch DCMlink as DTM:

NOTE:
- To launch DCMlink as DTM over FF protocol, user needs to launch FDT frame application in Administrator mode.
- DCMlink DTM will not launch if DCMlink service is stop.
- DCMlink service will start automatically if FDT frame application launch in administrator mode.

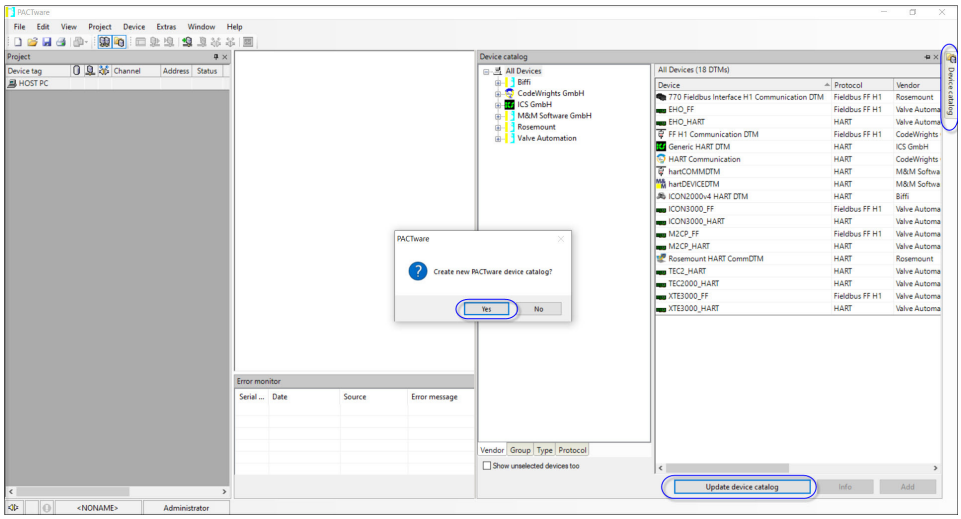
1. Connect any supported actuator over HART/ FF.
2. Start the FDT frame application (e.g., PACTware).

Figure 88. PACTware FDT Frame Application



3. Select Device catalog and click on “Update device catalog” button.

Figure 89. PACTware Update Device Catalog View



3.9 Troubleshooting Communication Issues

Table 3. Installation Issues Question and Answer Table

Section	Question and Answer
Serial Ports	**Question:** **DCMlink software does not detect all of my serial ports.** **How do I enable DCMlink Software to use a port that it does not automatically detect?**
	Answer: In the PreferenceSetting.XML file, ModbusSettings section, user can add an entry for Modbus Setting. If the user makes this change while DCMlink Software is running, the user will have to exit and restart the software for this change to take effect.
COM Port	**Question:** **DCMlink Software is not detecting the COM port. What could be causing this problem?**
	Answer: Close DCMlink and relaunch application. If the problem persists, restart the computer. Alternatively, the user can try programs, such as Allen Bradley or competitive valve suppliers, etc., that may be using the COM port. Other causes may include: The power saving option is set and has caused the port to use the low power option. You need to set the power saving to none and delete and reinstall the COM port. The COM ports hardware is malfunctioning. To solve this, please contact your System Administartor.
Communication Errors in DCMlink	**Question:** **I am getting communication errors when performing operations with DCMlink. What can I do to fix the errors?**
	Answer: In the PreferenceSetting.XML file, ModbusSetting section, try changing the value of delay (Timeout delay). If you make this change while DCMlink Software is running, the user will have to exit and restart the software for this change to take effect.

www.emerson.com