# AppLoader v7.0
# User Guide

OEMCtrl®

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Important changes are listed in **Document revision history** at the end of this document.

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# Installing AppLoader

AppLoader is a software utility that enables field technicians to restore the original factory settings or install updated files to a controller or router. A clipping is the software configuration and may include a driver, control program, graphics, and screen files.

**Prerequisites**

- Connecting cable:
  - USB Link cable for local access communication (obtain from the manufacturer)
  - Ethernet cable for IP communication
- Device configuration files
- .clipping (obtain from the manufacturer)

1. Make sure that the USB Link cable driver is installed.
2. Connect the computer to the controller with the USB Link.
3. Create a folder on your local disk drive to save the AppLoader installation files in.
4. Extract the files to the folder you created.
5. Double-click the **setup.exe** file.
6. Follow the **Setup Wizard**.



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# Downloading a clipping using an Rnet connection

From your desktop, click **Start** > **All Programs** > **AppLoader x.x** and then click AppLoader or browse to your program location.

1 Select **Connection** and check **Rnet**.

2 Select **Access Port** and check the COM port for the USB Link.

To find the correct port:

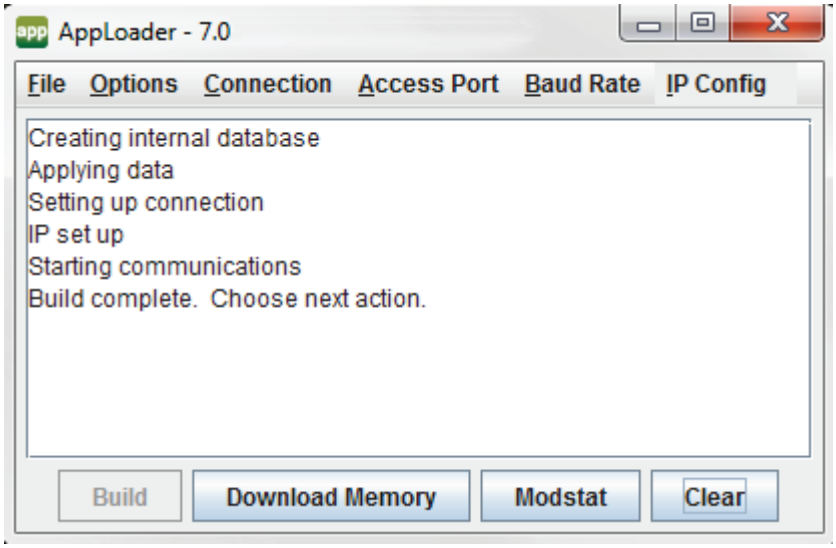
1. From **Start** or explore, on your computer, right-click **Computer** and select **Manage**.
2. Select **Device Manager** in the tree on the left.
3. Click the arrow next to **Ports (COM & LPT1)**.
4. Your port is listed next to **Silicon Labs USB to UART Bridge**.

3 In AppLoader, select **Baud Rate** and check **115200**.

**NOTE** The I/O Controller-E uses 38,400 baud rate and the USB-K cable for Local Access communication. All other devices use 115,200 baud rate and the USB-L cable.

4 Select **File** > **Open**, browse to your clipping folder, select the clipping file, and then click **Open**.

5 Click **Build**. Wait for the message that the build is complete.




6 Click **Modstat** to verify successful communication. Check your connection if there are problems.

7 If communicating properly, click **Download Memory**.

8 In the **Set Device ID** popup, make sure **Use factory auto-assign device ID** is checked and click **OK**.

9 Wait for the message **Download Successful**.

**NOTE** Downloads can take up to 10 minutes, depending on the controller.



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# Downloading a clipping using an IP connection to an Opticore™ device

To use AppLoader with Opticore™ devices, you have to connect over IP.

You must perform all of the following 5 steps. They are each explained in detail below.

1. Enable DHCP on your computer.
2. Connect to the Opticore™ device and set its IP address using Service Port.
3. Disable DHCP and set static IP address for default IP address network.
4. Connect AppLoader to the Opticore™ device's Gig-E Port to download clipping.
5. Enable DHCP on your computer and reconfigure your Opticore™ device's original IP address.

**WARNINGS** AppLoader will NOT function unless you do the following:

- Disconnect your computer and the Opticore™ device from your building network.
- Shut down the WebCTRL® or Field Assistant or Field Assistant application that may be running on your computer.
- Turn off the computer's Wi-Fi.
- If you have more than one network interface card (NIC), AppLoader automatically selects the one with the lowest IP address. You must disable the networks that you do not want AppLoader to use.



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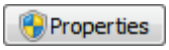
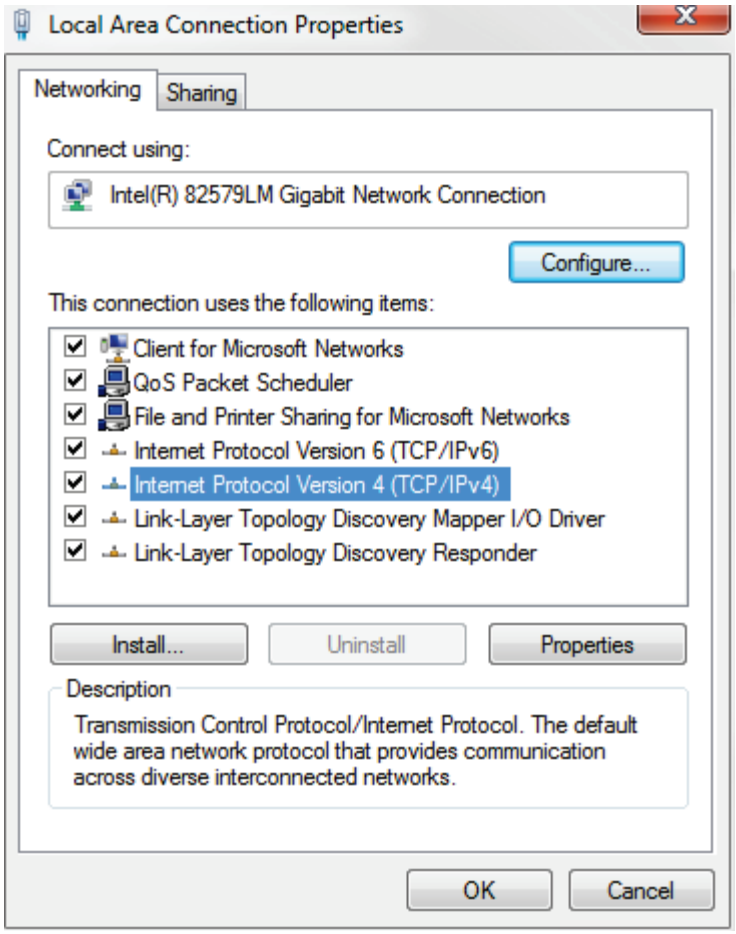
## Step 1: Enable DHCP on your computer

1 Click **Start** > **Control panel** > **Network and Internet** > **Network and Sharing Center**.

2 Under active networks, double-click the **Local Area Connection** link to open **Local Area Connection Status**.

3 Click the **Properties** button 

and then double-click **Internet Protocol Version 4 (TCP/IPv4)**.




4 Check **Obtain an IP address automatically** and click **OK** to close the window.

5 Click **OK** again.

6 Click **Close**.

7 Leave the **Network and Sharing Center** page open. You will use it again later.



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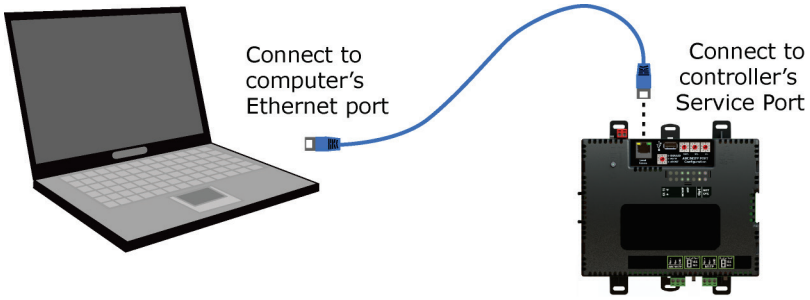
## Step 2: Set the IP address of the Opticore™ device

1 Connect an Ethernet cable from your computer to the Opticore™ device's Service Port, as shown below.




2 Open a web browser on the computer.

3 Navigate to http://local.access or http://169.254.1.1 to see the controller setup pages.

4 On the **Ports** tab, under **IP Port**, you will see your current configuration. Make note of the settings. You will need them later.

5 Check **Custom Static** and type the following addresses:

- **IP address:** 192.168.168.1
- **Subnet Mask:** 255.255.255.0

**NOTE** Do not change **Default Gateway**.

6 Click **Save**.

7 Remove the Ethernet cable to disconnect from the Service Port.

## Step 3: Disable DHCP and set static IP address for default IP address network

1 Return to **Network and Sharing Center**. (see Step 1 for details if you closed it.)

2 Under active networks, double-click the **Local Area Connection** link to open **Local Area Connection Status**.

3 Click the **Properties** button

and then double-click **Internet Protocol Version 4 (TCP/IPv4)**.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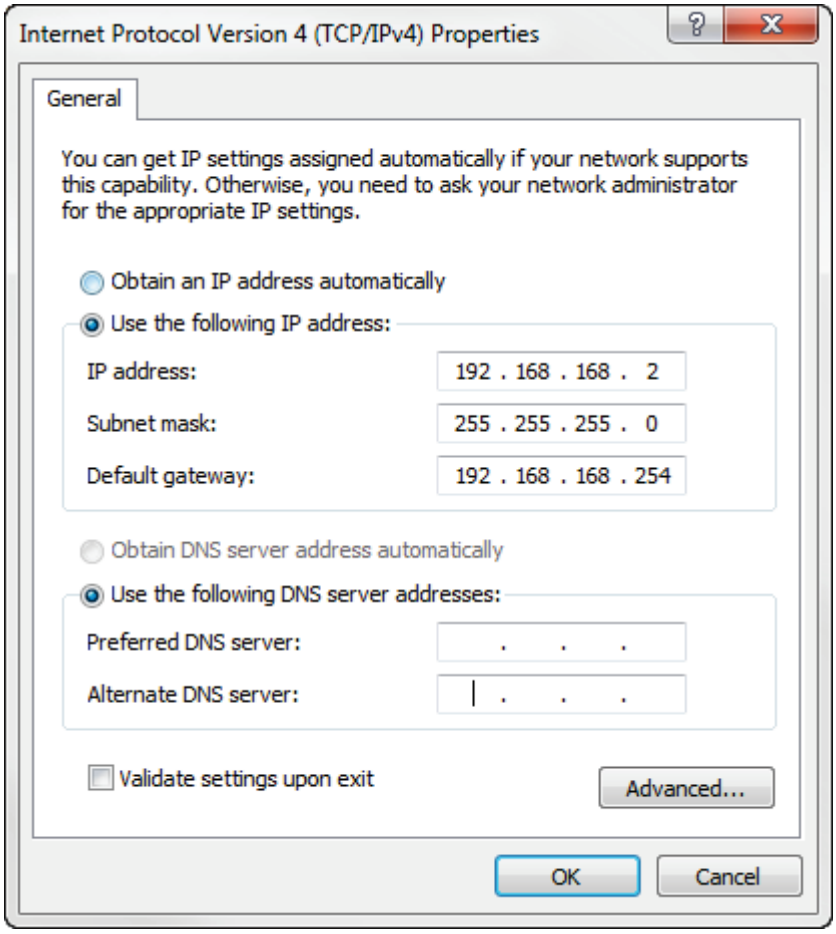
4 Check **Use the following IP address** and enter

- 192.168.168.2

  **CAUTION** The final digit can be anything except .1.
- 255.255.255.0
- 192.168.168.254




5 Click **OK**.

6 Click **OK**.

7 Click **Close**.



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## Step 4: Connect AppLoader to Gig-E Port to download clipping

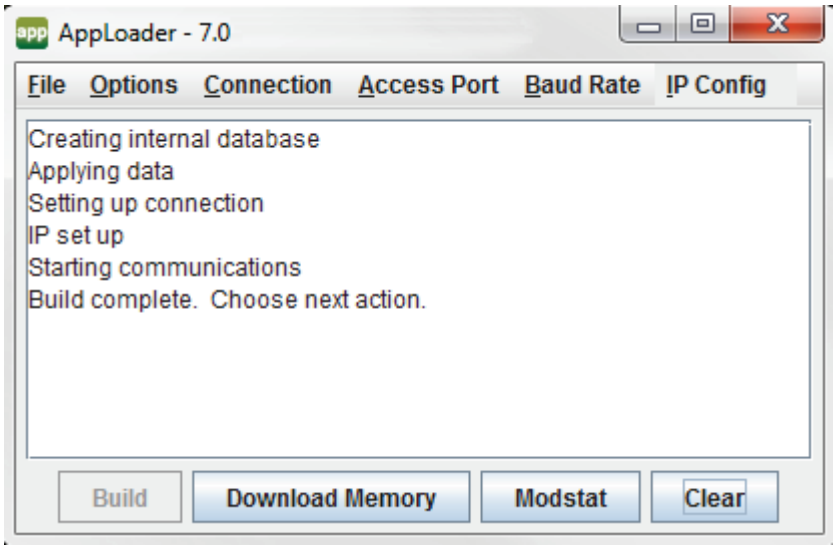
1 Connect the Ethernet cable from your computer to the Opticore™ device's **Gig-E** Port.

2 Launch AppLoader.

3 Set AppLoader to communicate over IP by clicking **Connection** in the top menu and checking **IP**.

4 Select **File** > **Open,** browse to your clipping folder, select the clipping file, and then click **Open**.

5 Click **Build**. Wait for the message that the build is complete.




6 Click **Modstat** to verify successful communication. Check your connection if there are problems.

7 If communicating properly, click **Download Memory**.

8 In the **Set Device ID** popup, make sure **Use factory auto-assign device ID** is checked and click **OK**.

9 Wait for the message **Download Successful**.

**NOTE** Downloads can take up to 10 minutes, depending on the controller.

10 Close AppLoader.

11 Disconnect the cable from the **Gig-E** Port.

## Step 5: Re-enable DHCP on your computer and reconfigure your Opticore™ original IP address

1 Follow **Step 1: Enable DHCP on your computer** and close the window.

2 Follow steps 1 and 2 in **Step 2: Set the IP address of the device using Service Port**.

3 Enter your original IP configuration that you noted.

4 Close your browser.

5 Disconnect Ethernet cable from Service Port.



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# Downloading a clipping using an IP connection to an ExecB device

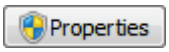
## Step 1: Disable DHCP and set static IP address for default IP address network

When using IP connection, set the device to default IP and place the computer running the AppLoader software on the same subnet.

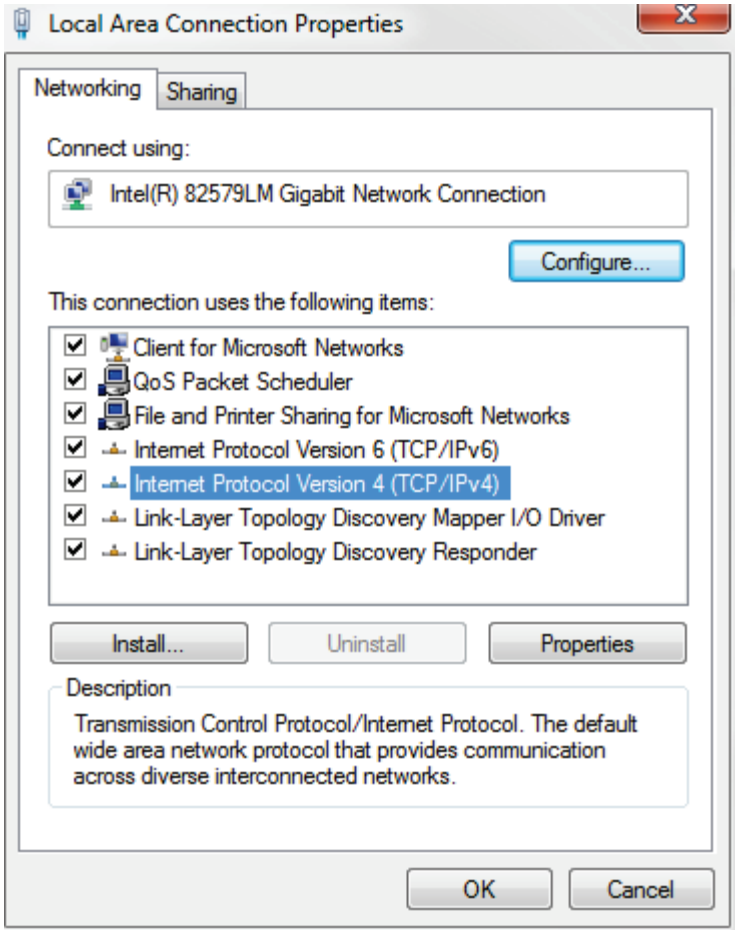
**CAUTION** You must disable all other network and wireless ports on the computer.

1 Click **Start** > **Control panel** > **Network and Internet** > **Network and Sharing Center**.

2 Under active networks, double-click the **Local Area Connection** link to open **Local Area Connection Status**.

3 Click the **Properties** button 

and then double-click **Internet Protocol Version 4 (TCP/IPv4)**.





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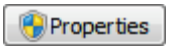
4 Under active networks, double-click the **Local Area Connection** link to open **Local Area Connection Status**.

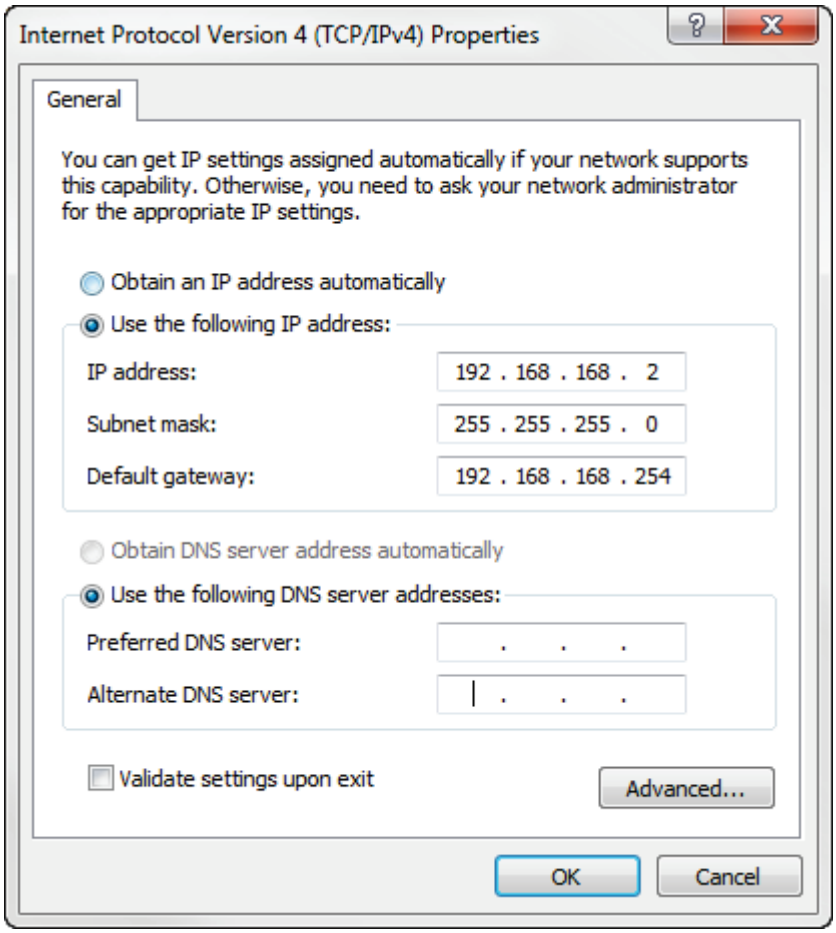
5 Click the **Properties** button 

and then double-click **Internet Protocol Version 4 (TCP/IPv4)**.

6 Check **Use the following IP address** and enter

- 192.168.168.2

  **CAUTION** The final digit can be anything except **.1**.
- 255.255.255.0
- 192.168.168.X.X (equals the rotary address switches on the device)




7 Click **OK**.

8 Click **OK**.

9 Click **Close**.



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## Step 2: Connect AppLoader to Ethernet to download clipping

1 Connect the Ethernet cable from your computer to the controller's Ethernet port.

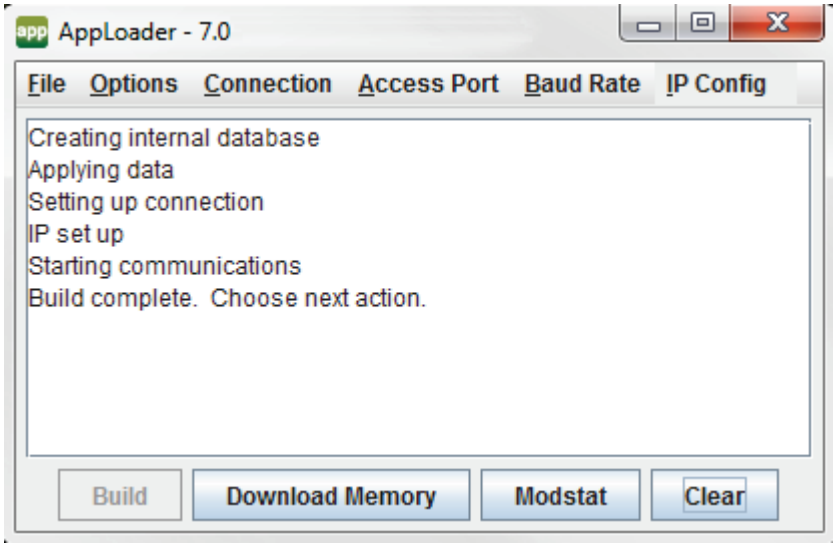
**NOTE** Use a crossover Ethernet cable or a Hub and 2 straight-through Ethernet cables. Make sure cables are attached before attempting communications.

2 Launch AppLoader.

3 Set AppLoader to communicate over IP by clicking **Connection** in the top menu and checking **IP**.

4 Select **File** > **Open,** browse to your clipping folder, select the clipping file, and then click **Open**.

5 Click **Build**. Wait for the message that the build is complete.




6 Click **Modstat** to verify successful communication. Check your connection if there are problems.

7 If communicating properly, click **Download Memory**.

8 In the **Set Device ID** popup, make sure **Use factory auto-assign device ID** is checked and click **OK**.

9 Wait for the message **Download Successful**.

**NOTE** Downloads can take up to 10 minutes, depending on the controller.

10 Close AppLoader.

11 Disconnect the cable from the Ethernet port.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# Document revision history

Important changes to this document are listed below. Minor changes such as typographical or formatting errors are not listed.

| Date | Topic | Change description | Code* |
|---|---|---|---|
| | | New document. | |

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