Firmware upgrade using ION Setup for IMD and IFL devices

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

About this guide

This guide explains about the firmware upgrade using ION Setup procedure of Vigilohm IMD and IFL devices. The IFL devices are IFL12C, IFL12MC, IFL12MCT, and IFL12H. The IMD devices are IM400, IM400C, IM400L, IM400THR, and IM400LTHR.

Throughout this guide, the term "device" refers to Vigilohm IFL12C, IFL12MC, IFL12MCT, IFL12H, IM400, IM400C, IM400L, and IM400THR. All differences between the models, such as a feature specific to one model, are indicated with the appropriate model number or description.

This document is customized for the device firmware upgrade. For detailed installation and operating instructions including safety messaging, read the ION Setup user guide and device configuration guide.

Document Reference

Title	Number
PowerLogic™ ION Setup 3.0 Device Configuration Guide	7EN02-0293
PowerLogic™ ION Setup 3.0 User guide	7EN02-0312

Before you begin

- Make sure that IFL device firmware version is 1.0.2 and above and IMD device firmware version is 3.2.0 and above. To view your device firmware, navigate to **Menu > Identification**.

- All the required driver installation is complete for the communication setup.

- Make sure that you have a USB to RS485 serial adapter.

    NOTE: If you face any issues during the firmware upgrade, contact Schneider Electric customer care representative.

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Installing ION Setup

1. Download the latest ION Setup installation file from the link: *ION Setup Software*.

2. Double-click **IONSetup vX.X.XXXXX.XX.exe**.

    The **License Agreement** window displays.
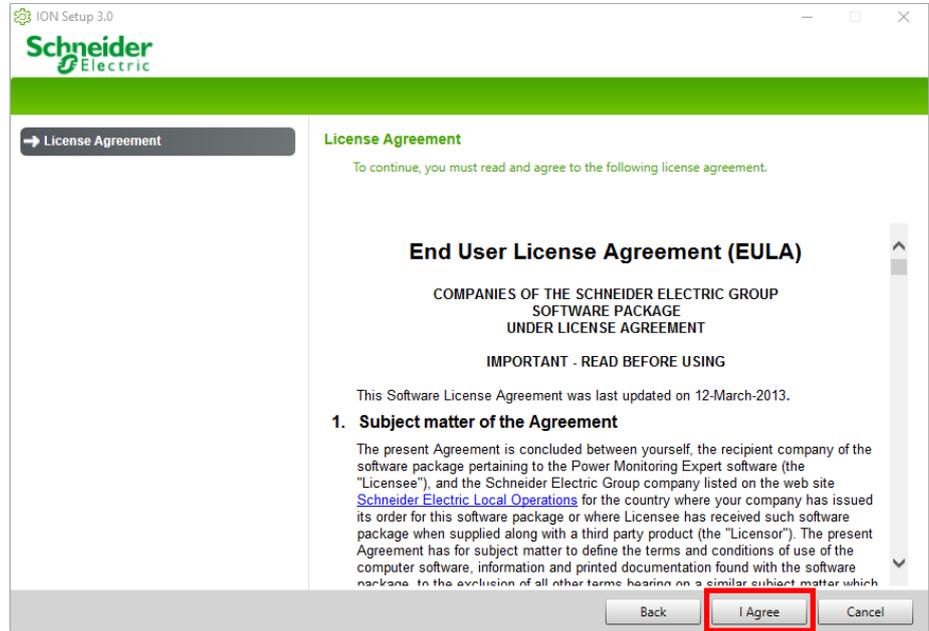
3. Click **I Agree**.

    The **Setup Type** window displays.
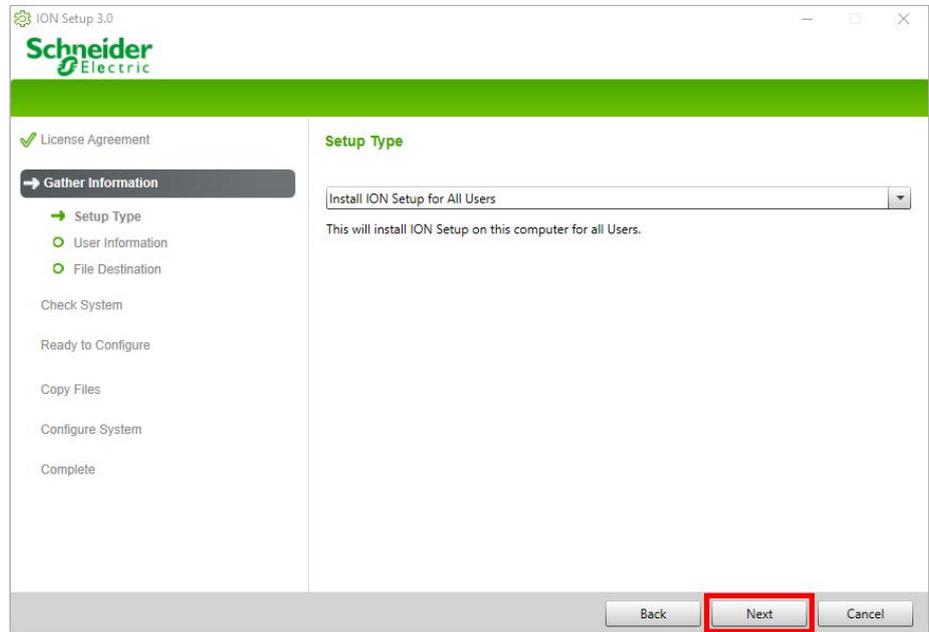
4. Click **Next**.

    The **User Information** window displays.
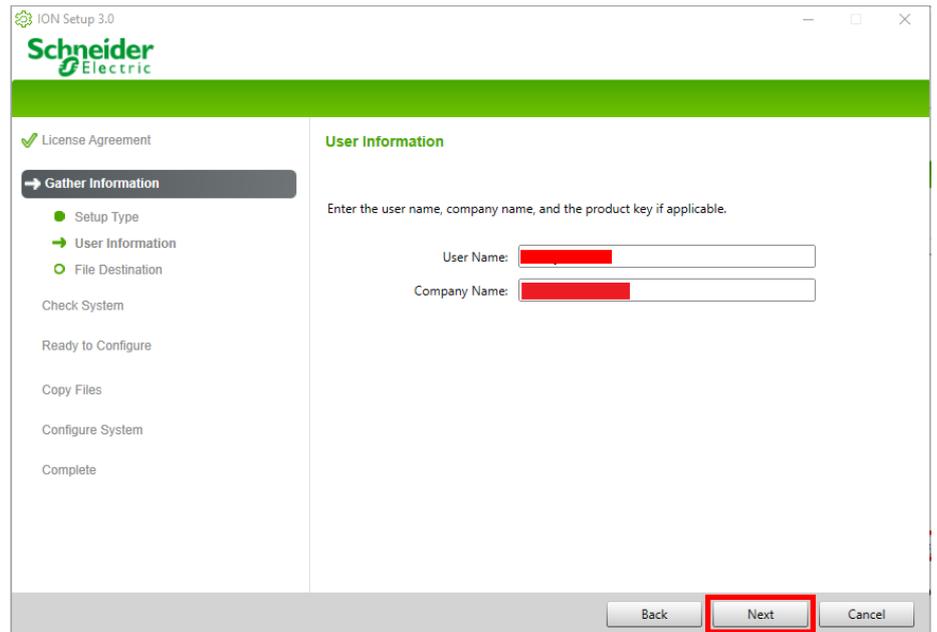
5. Enter the Email id in the **User Name** field and company name in the **Company Name** field.

6. Click **Next**.

    The **File Destination** window displays with the default location for installation.
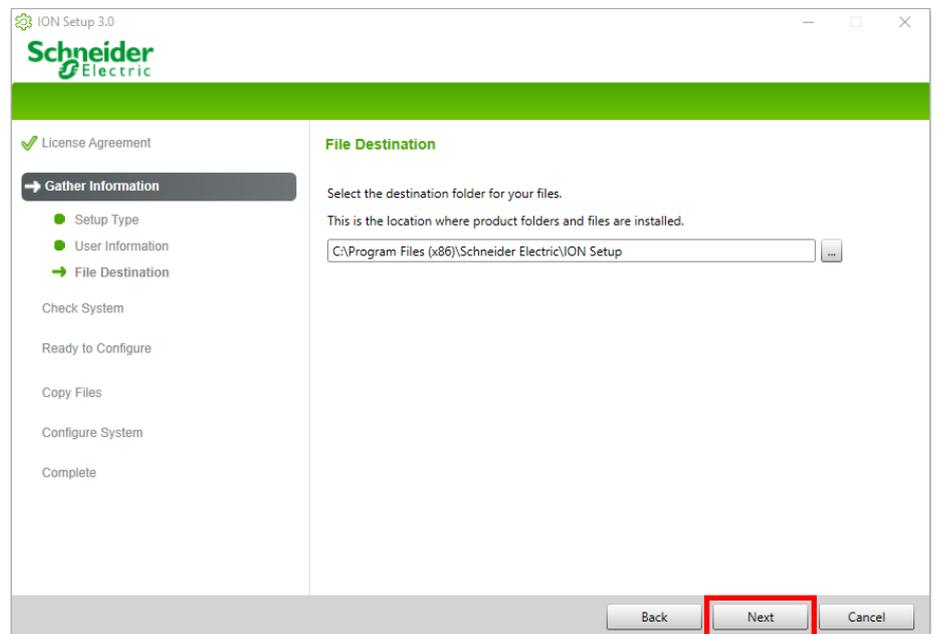
NOTE: It is advised to install in default location.

If you want to change the location, select the required location.

7. Click **Next**.

The **Check System** window displays.
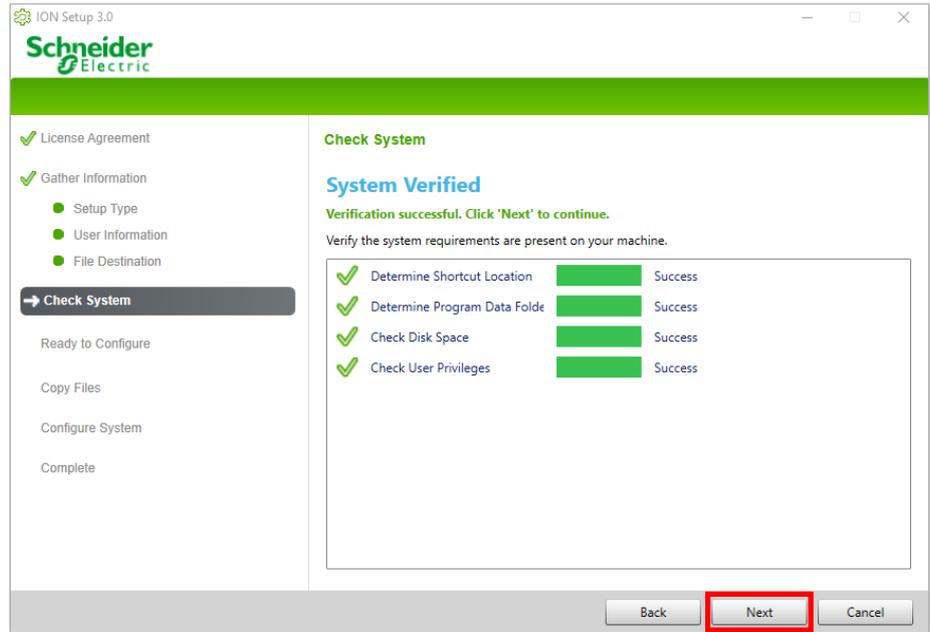
Ensure that all the system requirements are successful. If any failure observed, take necessary action and/or contact Schneider Electric customer care representative for support.

8. Click **Next**.

The **Ready to Configure** window displays.
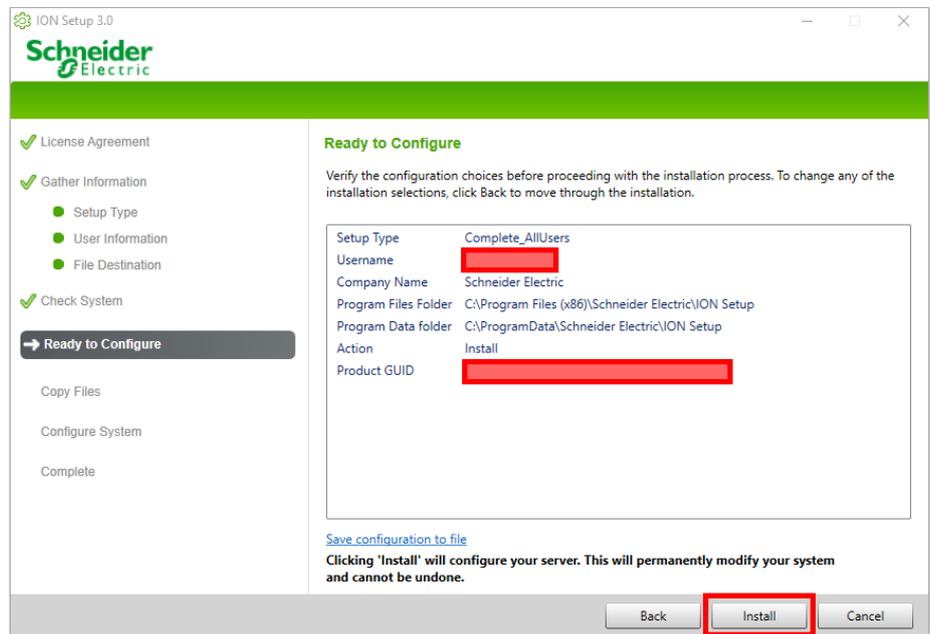
Verify the configuration choices and make any changes if required.

9. Click **Install**.

The installation begins with copying files and completes the configuration.
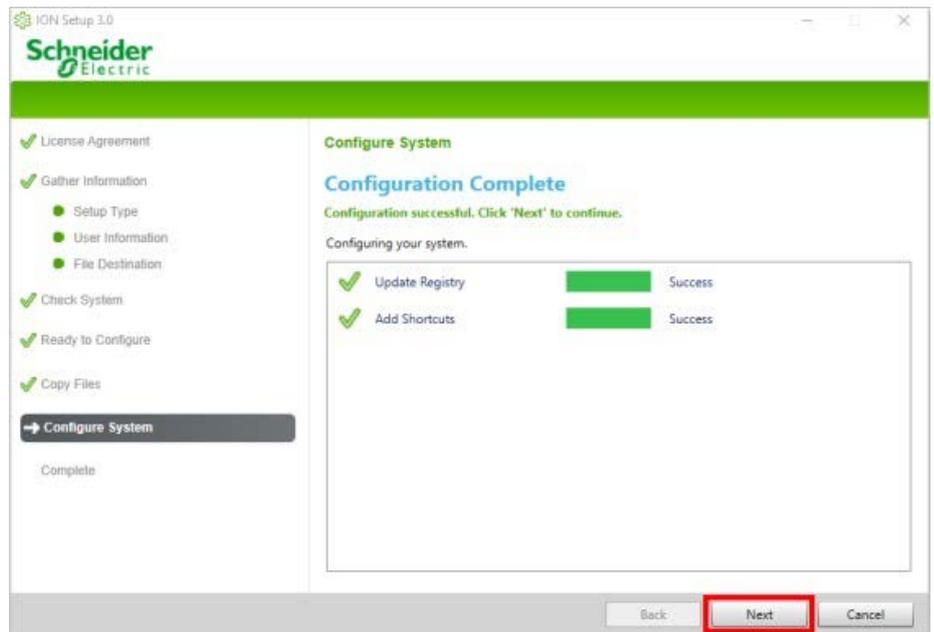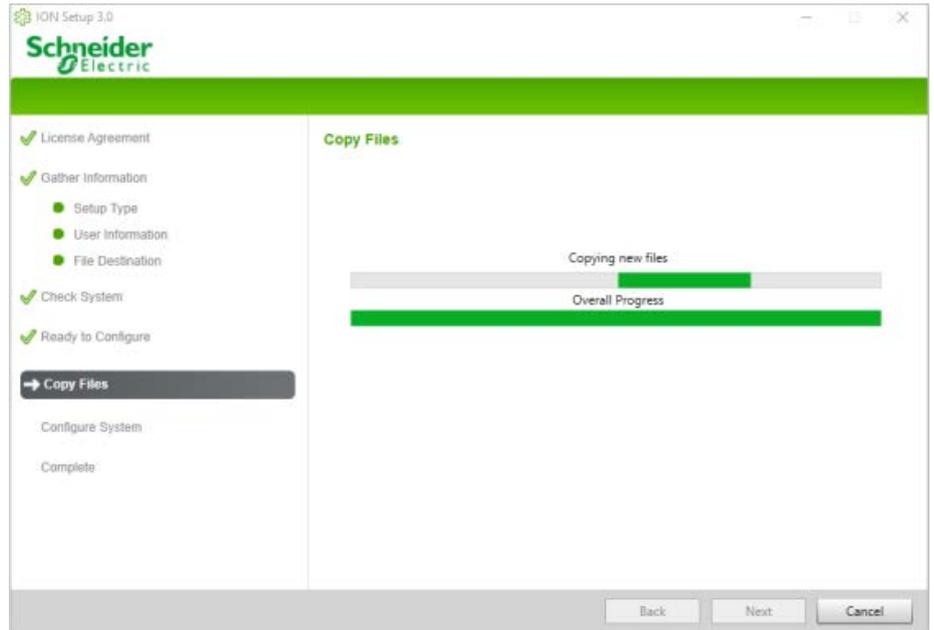
10. Click **Next**.

The **Complete** window displays with a link to installation logs.
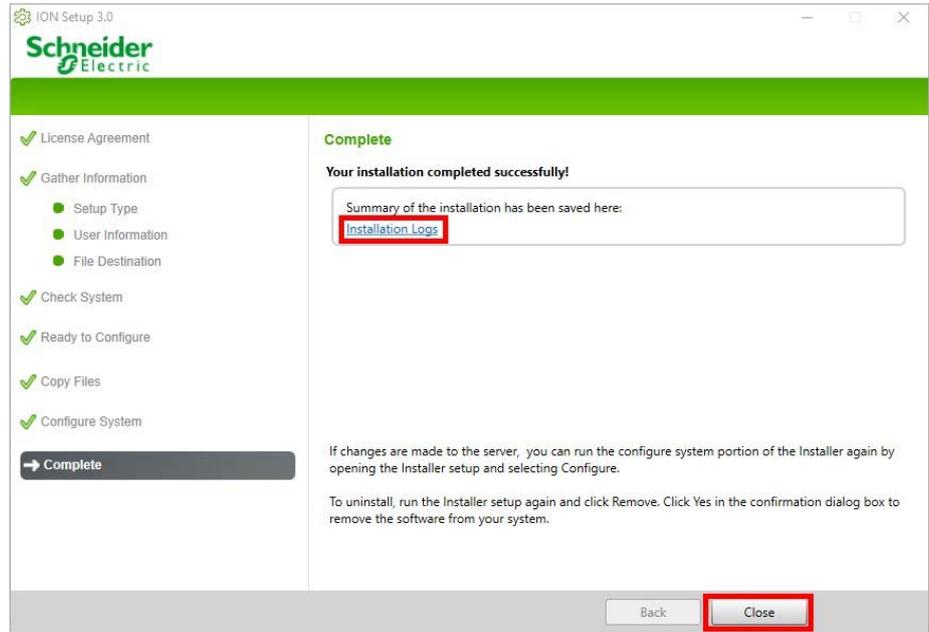
11. Click **Close** to exit the installer.

The ION Setup is successfully installed.

Configuring ION Setup

1. Click **ION Setup** shortcut on your desktop (or click **Start > Programs**, point to the folder that contains ION Setup, then select ION Setup).

    - If ION Setup detects a newer available version, then the **New Available Software Update** dialog box displays. You can chose to upgrade or exit.

    - If the installed ION Setup is the latest version, the **ION Setup Network Viewer** window displays.
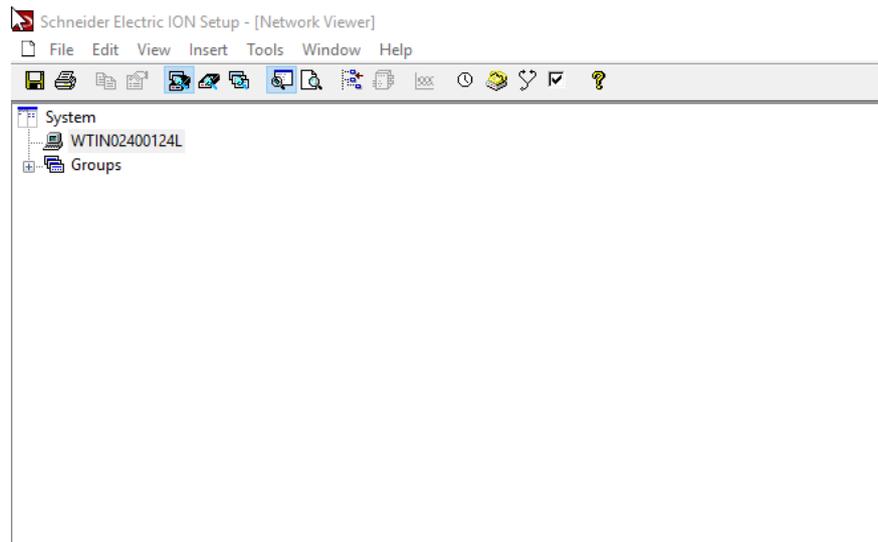
2. Right-click on the computer icon and select **Insert Item**.
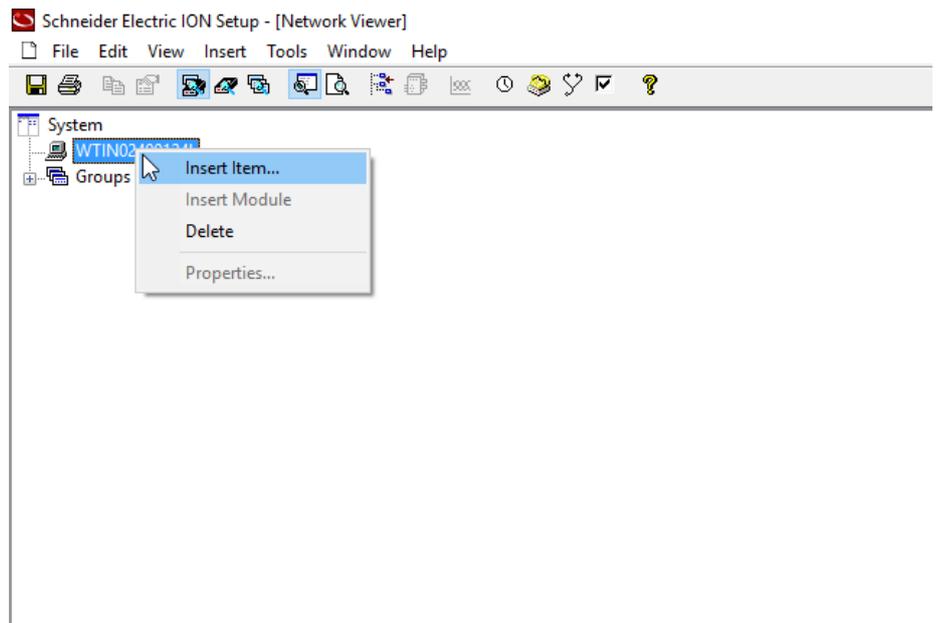
The **New Network Item** window displays.
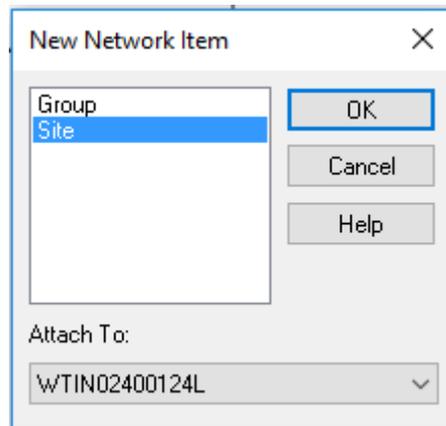
3. Select **Site** and click **OK**.

   The **New Site** window displays.

   To configure the new site, you need to identify the serial port to which the device is connected. Perform the following steps:

   a. Connect the USB to RS485 serail adapter to the device.

   b. Connect the adapter to the USB port of the computer.

   c. Power ON the device.

   d. Open the **Device Manager** and identify the serial port to which the device is connected.

      The following example shows the serial port (highlighted) to which the device is connected.
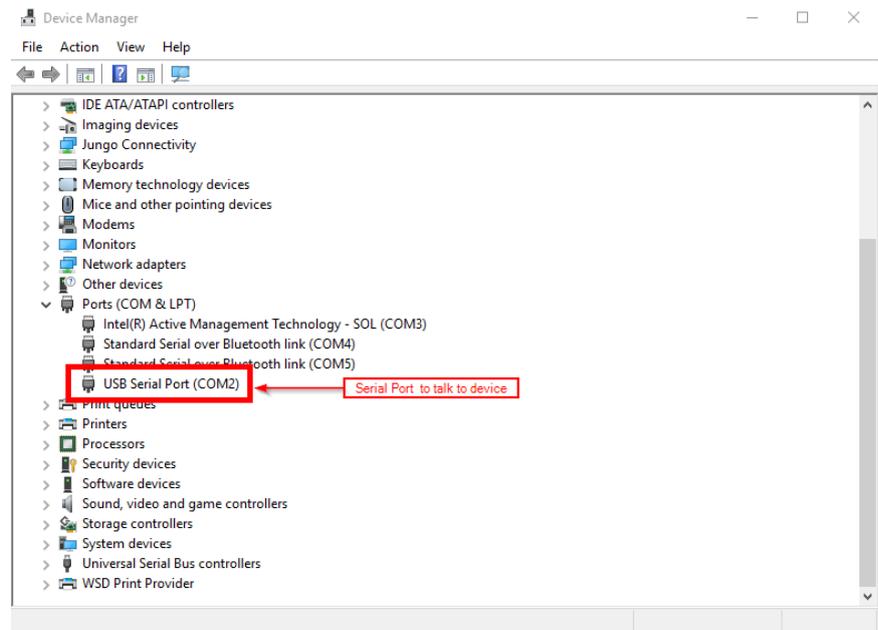
4. Configure the site settings with the following values:

Option	Description
Name	Enter the name as required.
Comm Link	Select **Serial**.
Comm Port	Select the serial port to which the device is connected. See **Device Manager**.
Port Settings	Select **19200** Baud and **8E1** Format.

An example site settings is as follows:
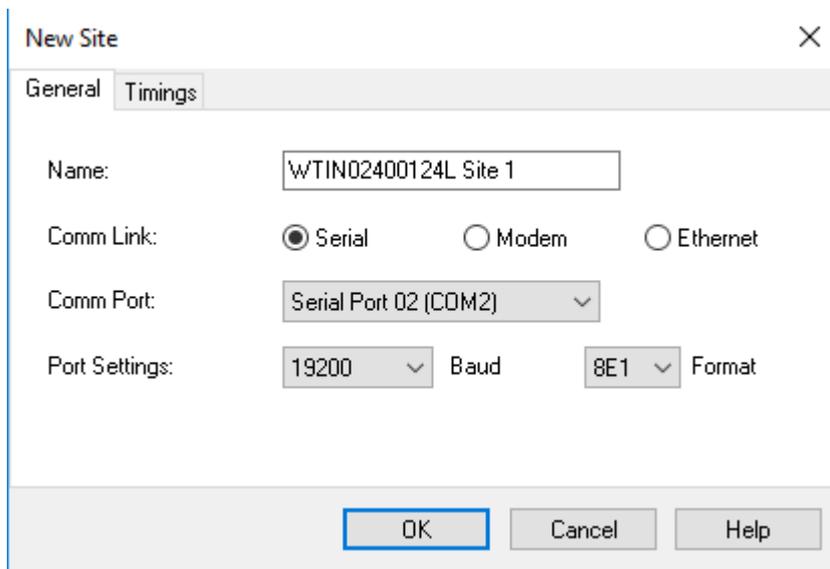
5. Click **OK**.
   The site is created.

6. Right-click on the created site and select **Insert Item**.
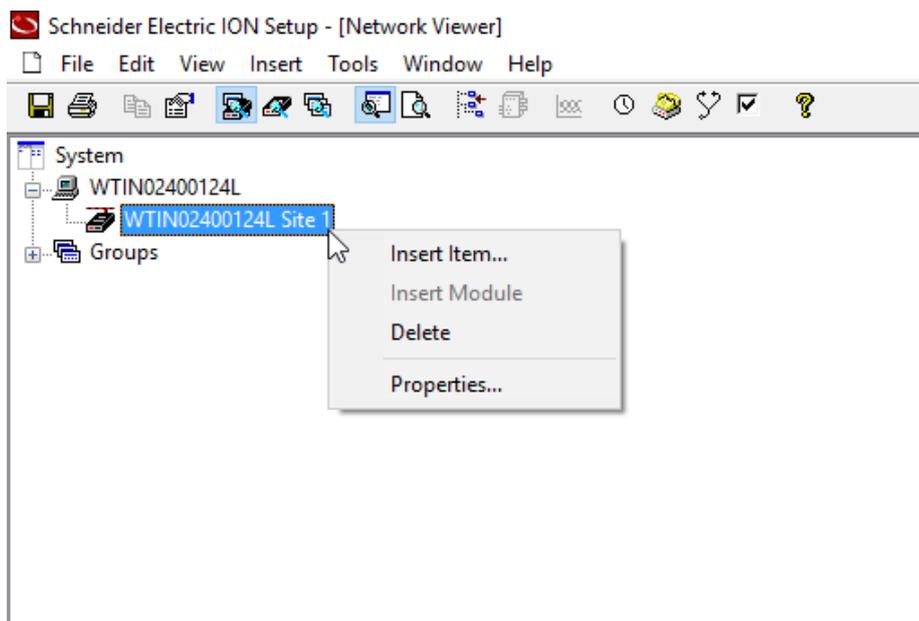
The **New Network Item** window displays.
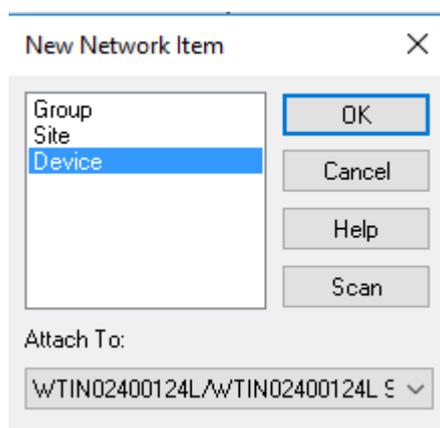
7. Select **Device** and click **OK**.

The **New Device** window displays.

8. Configure the device settings with the following values:

Option	Description
Name	Enter the name as required.
Type	• Select **Vigilohm IMD Insulation Monitoring Device** for IMD devices. • Select **Vigilohm IFL Insulation Fault Locator** for IFL devices.
Unit ID	Enter the Modbus ID of the device. To view your device Modbus ID, navigate to **Menu > Settings > Modbus**.
Group	Enter the group name as required.

An example of device settings is as follows:

9. Click **OK**.
   The device is created under the site.

The ION Setup is configured.

Upgrading the firmware

Make sure that the latest firmware (s19 format) is downloaded and available in a known location. For downloading the latest firmware, contact Schneider Electric customer care representative.

1. Right-click on the device created and select **Properties**.
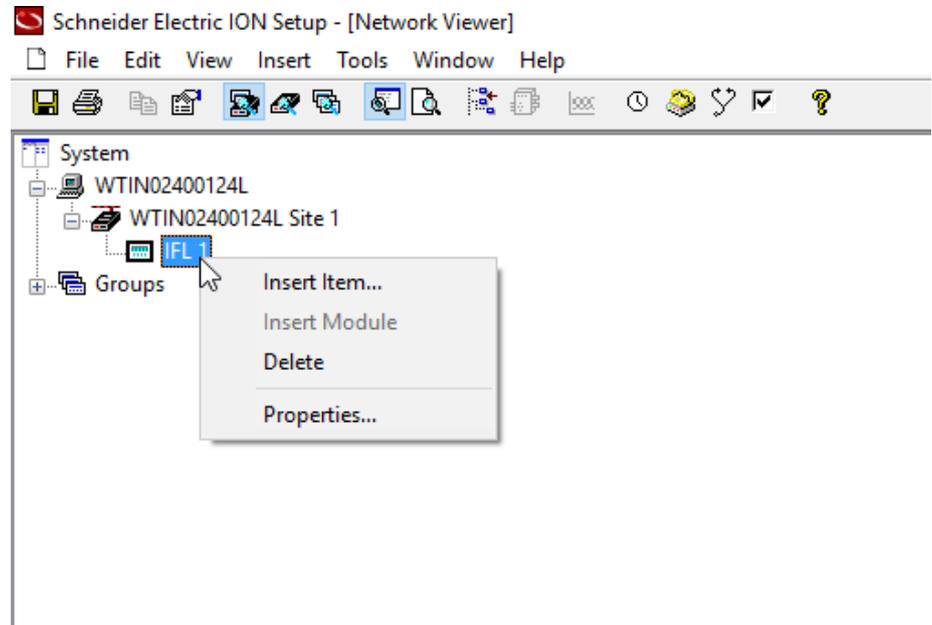
The **Device Properties** window displays.

2. Select **Display** tab.

3. Select the required model number from the **Template Options** and click **OK**.
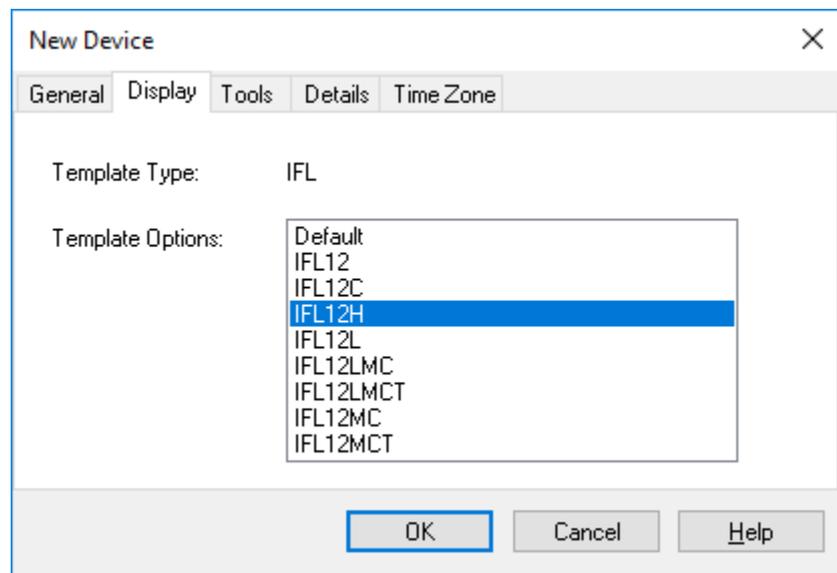
4. Select **Tools** tab.
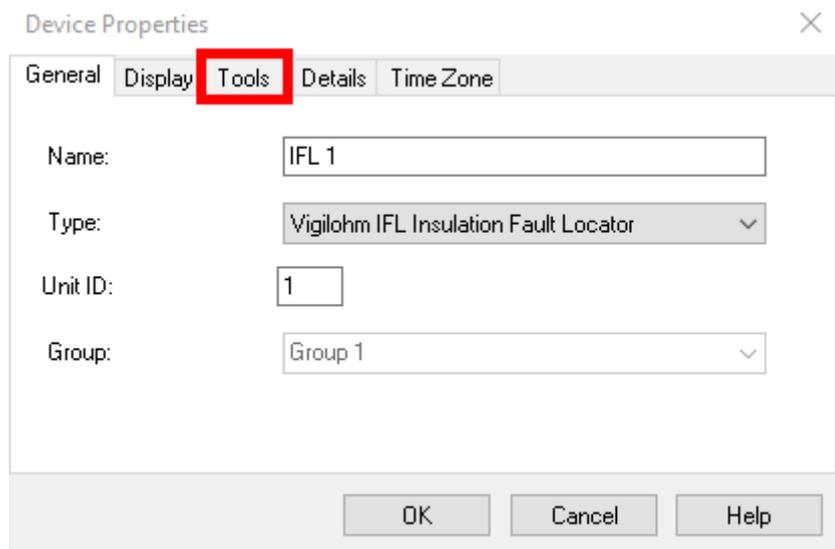
5. Select **Firmware Upgrade** in the **Tools** tab.
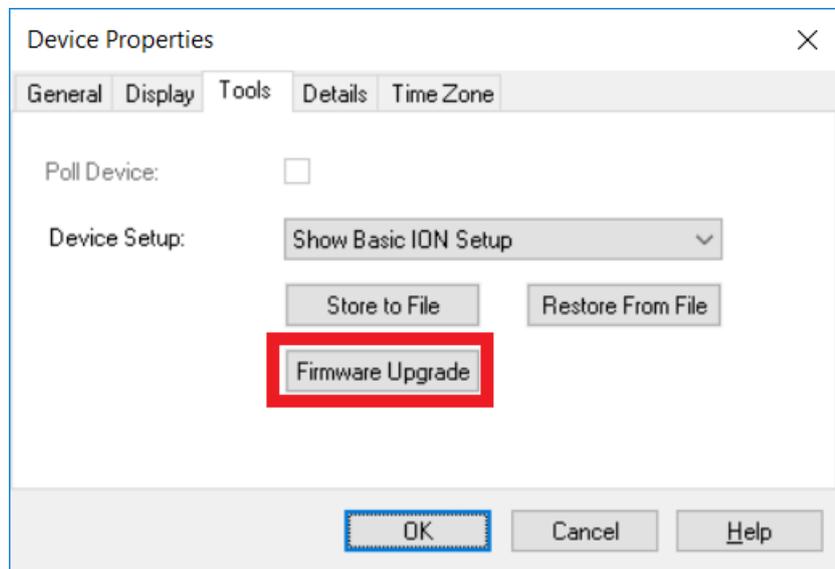
6. Select the downloaded latest firmware file from the known location and click **Open**.

   A warning message is displayed.

7. Read and understand the message and click **OK**.

   A confirmation message is displayed.
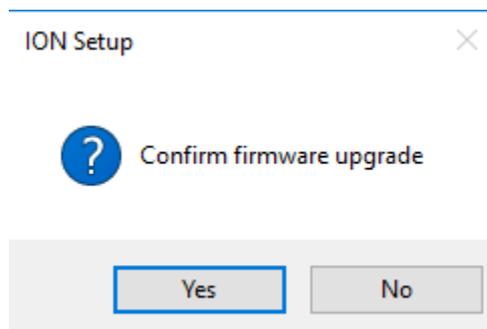
8. Click **Yes**.

ION Setup attempts to switch the device to update mode.

Firmware Upgrade

Upgrade Results

Model ID = 17030 [IFL 12]
File Firmware: 000.000.694
Device Firmware: [000.000.683]
Boot Firmware: [000.000.683]
Device is in normal mode
Attempting to switch to update mode

Attempting to switch to update mode

Abort
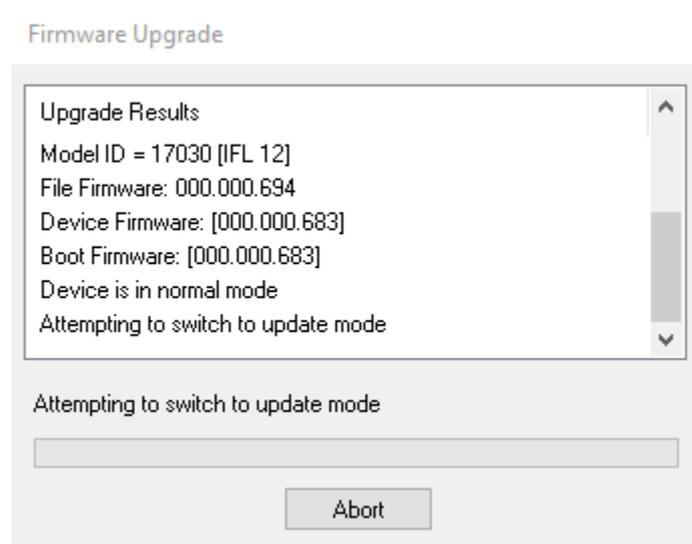
After switching to update mode, the upgrade continues and the communication efficiency (in percentage) is displayed simultaneously.

Firmware Upgrade

Upgrade Results

Decreasing transmit delay: 15 ms
Decreasing transmit delay: 0 ms
10% completed
Comm efficiency = 100.0%
20% completed
Comm efficiency = 100.0%

Estimated Time Remaining: 2 mins 12 secs

Abort
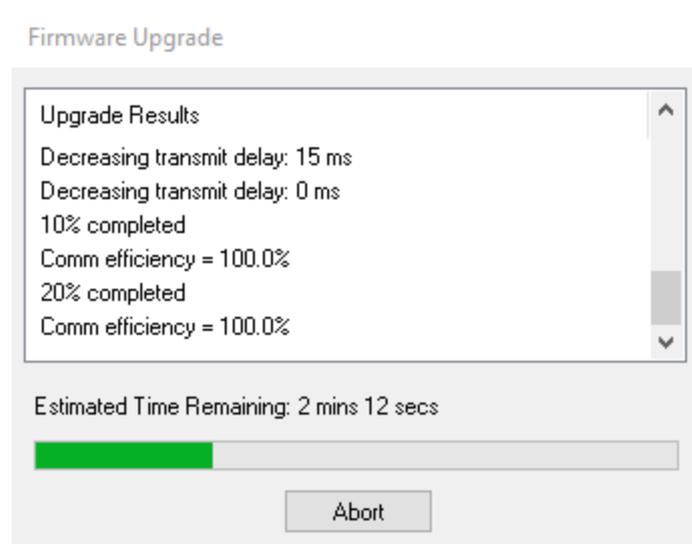
On update completion, the device is returns to normal mode.

Firmware Upgrade

Upgrade Results

100% completed
Firmware download completed
Upgrade file accepted successfully
Attempting to return to normal mode
Device now in normal mode
Upgrade completed at Monday, January 22, 2018 2:37:53 PM
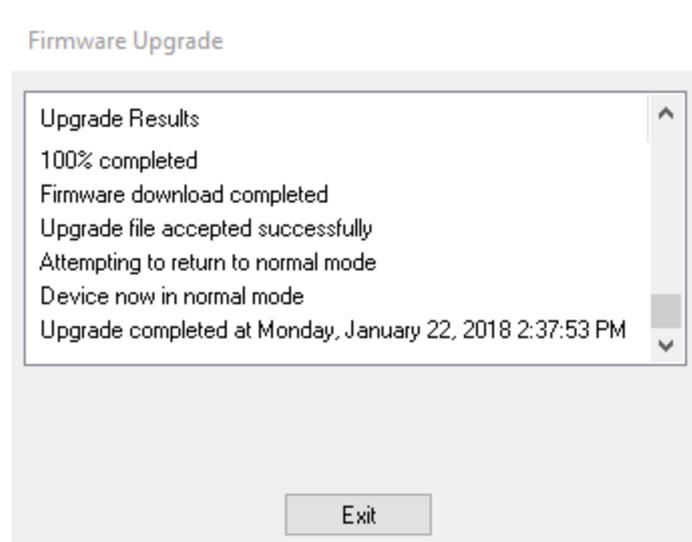
Exit

9. Click **Exit**.

The firmware upgrade is complete.