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.

ON Setup 3.0	- 0	\times
Schneider Electric		
→ License Agreement	License Agreement	
	To continue, you must read and agree to the following license agreement.	
	End User License Agreement (EULA)	^
	COMPANIES OF THE SCHNEIDER ELECTRIC GROUP SOFTWARE PACKAGE UNDER LICENSE AGREEMENT	
	IMPORTANT - READ BEFORE USING	
	This Software License Agreement was last updated on 12-March-2013.	
	1. Subject matter of the Agreement	
	The present Agreement is concluded between yourself, the recipient company of the software package pertaining to the Power Monitoring Expert software (the "Licensee"), and the Schneider Electric Group company listed on the web site <u>Schneider Electric Local Operations</u> for the country where your company has issued its order for this software package or where Licensee has received such software package when supplied along with a third party product (the "Licensor"). The present Agreement has for subject matter to define the terms and conditions of use of the computer software, information and printed documentation found with the software package to the exclusion of all other terms beging an alguider subject matter to the first of the software package. In the exclusion of all other terms beging an alguider subject matter when the software package.	>
	Back I Agree Cancel	

3. Click I Agree.

The Setup Type window displays.

3 ION Setup 3.0				×
Schneider				
Electric				
🖉 License Agreement	Setup Type			
Gather Information				-
→ Setup Type	Install ION Setup for All Users			•
O User Information	This will install ION Setup on this computer for all Users.			
O File Destination				
Check System				
Ready to Configure				
Copy Files				
Configure System				
Complete				
	Back	Next	Cano	el

4. Click Next.

The User Information window displays.

🔅 ION Setup 3.0		-		×
🖋 License Agreement	User Information			
Gather Information Setup Type	Enter the user name, company name, and the product key if applicable.			
User Information File Destination	User Name:			
Check System	Company Name:			
Ready to Configure				
Copy Files				
Configure System				
Complete				
		_		
	Back		Cance	:

- 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.

😂 ION Setup 3.0		– 🗆 X
Schneider		
G Electric		
✓ License Agreement	File Destination	
→ Gather Information	Select the destination folder for your files.	
Setup Type	This is the location where product folders and files are installed.	
User Information	C:\Program Files (x86)\Schneider Electric\/ON Setup	
→ File Destination		
Check System		
Ready to Configure		
Copy Files		
Configure System		
Complete		
		_
	Back Next	Cancel

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.

😂 ION Setup 3.0		– 🗆 X
Schneider		
Electric		
License Agreement	Check System	
✓ Gather Information	System Verified	
Setup Type	Verification successful. Click 'Next' to continue.	
User Information	Verify the system requirements are present on your made	hine.
File Destination	V Determine Shortcut Location	Success
→ Check System	Determine Program Data Folde	Success
Ready to Configure	V Check Disk Space	Success
Conv Files	V Check User Privileges	Success
Copy Files		
Configure System		
Complete		
		Pack Next Count
		Dack IVext Cancel

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.

ON Setup 3.0	- 🗆 X
Schneider	
Electric	
V License Agreement	Ready to Configure
✓ Gather Information	Verify the configuration choices before proceeding with the installation process. To change any of the installation selections, click Back to move through the installation
Setup Type	installation selections, ellek back to more allough the installation
User Information	Setup Type Complete_AllUsers
File Destination	Username
Check System	Company Name Schneider Electric Program Files Folder - C\Drogram Files (x86)\Schneider Electric\ION Setup
	Program Data folder C:\ProgramData\Schneider Electric\ON Setup
→ Ready to Configure	Action Install
0	Product GUID
Copy Files	
Configure System	
Complete	
	Save configuration to file
	and cannot be undone.
	Back

Verify the configuration choices and make any changes if required.

9. Click Install.

The installation begins with copying files and completes the configuration.

License Acteament	Conv Files			
Collins of the line	Copy Piles			
Setur Type				
 User Information 				
File Destination		Copying new files		
Check System		Overall Progress		
Ready to Configure				
Copy Files				
Configure System				
Complete				
		Bash	New	Connel
ON Setup 3.0		Back	Next	Cancel
ON Setup 3.0	Configure Sustan	Back	Next _	Cancel
ON Setup 3.0 Concelectric	Configure System	Back	Next	Cancel
ON Setup 1.0 Childer Electric License Agreement Gaber Information	Configure System Configuration Complete	Back	Next	Cancel
CN Setup 3.0 CELECTRIC License Agreement Gather Information Setup Type User Information	Configure System Configuration Complete Configuration successful. Click 'Next' to Configuration successful. Click 'Next' to	Back	Next	Cancel
ON Setup 3.0 Consider License Agreement Gather Information Setup Type User Information File Destination	Configure System Configuration Complete Configuration successful, Click 'Next' to Configuring your system.	Back 9 9 confinue.	Next	Cancel
ON Setup 3.0 Creating Contractions License Agreement Gather Information	Configure System Configuration Complete Configuration successful. Click 'Next' to Configuring your system.	Back Back Confinue. Success	Next	
ON Setup 3.0 CENTRE License Agreement Gather Information Setup Type User Information File Destination Check System Ready to Configure	Configure System Configuration Complete Configuration successful, Click 'Next' to Configuring your system. Update Registry Update Registry M Add Shortcuts	Back Back Confinue. Success Success	Next :	Cancel
ON Setup 1.0 CONSECUTION LICENSE Agreement Gather Information Setup Type User Information File Destination Check System Ready to Configure	Configure System Configuration Successful, Click 'Next' to Configuration successful, Click 'Next' to Configuring your system. Update Registry Update Registry M Add Shortcuts	Back Back Confinue. Success Success	Next	Cancel
ON Setup 3.0 CDE Electric License Agreement Gather Information Setup Type User Information File Destination Check System Ready to Configure Copy Files	Configure System Configuration Complete Configuration successful, Click 'Next' to Configuration system. Update Registry W Update Registry M Add Shortcuts	Back Confinue. Success Success	Next	Cancel
ON Setup 3.0 CONSECUTION LICENSE Agreement Gather Information Setup Type User Information File Destination Check System Ready to Configure Copy Files Configure System	Configure System Configuration Complete Configuration successful, Click 'Next' to Configuring your system. Update Registry W Update Registry M dd Shortcuts	Back Confinue. Success Success	Next	Cancel
ON Setup 3.0 CDECECTIC License Agreement Gather Information Setup Type User Information File Destination Check System Ready to Configure Copy Files Complete	Configure System Configuration Complete Configuration successful, Click 'Next' to Configuring your system. Update Registry M Add Shortcuts	Back Back Success Success	Next	Cancel
CN Setup 3.0 CDE ELECTRIC LICENSE Agreement Gather Information Setup Type User Information File Destination Check System Ready to Configure Copy Files Configure System Complete	Configure System Configuration Complete Configuration successful, Click 'Next' to Configuring your system. Update Registry M Add Shortcuts	Back Back Success Success	Next	Cancel

10. Click Next.

The **Complete** window displays with a link to installation logs.

3 ION Setup 3.0	- Q. (
Schneider	
Delectric	
🖌 License Agreement	Complete
Gather Information	Your installation completed successfully!
Setup Type	Summary of the installation has been saved here:
User Information	Installation Logs
File Destination	
Subscription Check System	
Ready to Configure	
🖌 Copy Files	
🖋 Configure System	
→ Complete	If changes are made to the server, you can run the configure system portion of the Installer again by opening the Installer setup and selecting Configure.
	To uninstall, run the Installer setup again and click Remove. Click Yes in the confirmation dialog box to remove the software from your system.
	Back

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.

Schneider El	ectric ION Setup -	Network Viewer]			
🗋 File Edit	View Insert T	ools Window H	elp		
🛛 🖨 🕒 🗎	🖆 🔊 🐼 🖏	🔄 🖪 🖹 🗍	i 🔤 🖸 🍕	? ⊇ ♡ 	
System	400124L				

2. Right-click on the computer icon and select Insert Item.



The New Network Item window displays.

New Network Item	×
Group	ОК
0.00	Cancel
	Help
Attach To:	
WTIN02400124L	~

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.

New Site		\times
General Timings		
Name:	WTIN02400124L Site 1	
Comm Link:	● Serial ◯ Modem ◯ Ethernet	
Comm Port:	Serial Port 02 (COM2) V	
Port Settings:	19200 V Baud 8E1 V Format	
		_
	OK Cancel Help	

5. Click OK.

The site is created.

6. Right-click on the created site and select **Insert Item**.



The **New Network Item** window displays.

New Network Item	×
Group Site	OK
Device	Cancel
	Help
	Scan
Attach To:	
WTIN02400124L/WTIN	102400124L S 🗸

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.
Туре	 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:

New Dev	/ice							Х
General	Display	Tools	Details	Time Zone				
Name:		[IFL_1					
Туре:		[Vigilohm	IFL Insulation	Fault Locat	or	\sim	
Unit ID:		[1					
Group:		[Group 1				\sim	
				OK	Cance		Help	

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.

New Dev	vice							×
General	Display	Tools	Details	Time Zone				
Templa	ate Type:		IFL					
Templa	ate Option	5:	Default IFL12 IFL12C IFL12L IFL12L IFL12LMI IFL12LMI IFL12MC IFL12MC	C CT T				
				OK	(Cancel	ł	<u>+</u> elp

4. Select Tools tab.

Device P	ropertie	S	_					\times
General	Display	Tools	Details	Time Zone				
Name:			IFL 1					
Туре:			Vigilohm	IFL Insulatio	n Fault Loc	ator	\sim	
Unit ID:	:	[1					
Group:			Group 1				\sim	
				OK	Cano	cel	Help	

5. Select Firmware Upgrade in the Tools tab.

Device Propertie	S	×
General Display	Tools Details Time Zone	
Poll Device:		
Device Setup:	Show Basic ION Setup $\qquad \qquad \lor$	
	Store to File Restore From File	
	Firmware Upgrade	
	OK Cancel <u>H</u> elp	0

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.

ION Setup	\times
? Confirm firmw	are upgrade
Yes	No

8. Click Yes.

ION Setup attempts to switch the device to update mode.

opgrade mesuits	· · · · · · · · · · · · · · · · · · ·
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	
· · · · · · · · · · · · · · · · · · ·	

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

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

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

noleted	
successfully	
normal mode	
node	Ì
Monday, January 22, 2018 2:37:53 PM	I
	npleted successfully normal mode node Monday, January 22, 2018 2:37:53 PM

9. Click Exit.

The firmware upgrade is complete.