Pro-face Connect

Quick Start Guide

Pro-face™
by **Schneider** Electric

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Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

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.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

About the Document

Document Scope

This document describes how to quickly install, configure, and test Pro-face Connect. Pro-face Connect provides secure remote access to devices as if you were on site.

> **NOTE:** Read and understand this document and all related documents, page 6 before installing, operating, or maintaining your Pro-face Connect.

Pro-face Connect users should read through the entire document to understand all features.

Validity Note

This documentation is valid for this product.

Restrictions about this product are available at https://www.pro-face.com/trans/en/manual/1072.html

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

To help keep your Pro-face products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the Cybersecurity Best Practices document.

Pro-face provides additional information and assistance:

- Visit the Security Notification page to find security notifications.
- Contact us to report vulnerabilities and incidents.

Product Related Cybersecurity Information

Use this product inside a secure industrial automation and control system. Total protection of components (equipment/devices), systems, organizations, and networks from cyber attack threats requires multi-layered cyber risk mitigation measures, early detection of incidents, and appropriate response and recovery plans when incidents occur. For more information about cybersecurity, refer to the Pro-face HMI/iPC Cybersecurity Guide:

https://www.proface.com/en/download/manual/cybersecurity_guide

⚠ **WARNING**
POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY
• Change default passwords at first use to help prevent unauthorized access to device settings, controls and information.
• Disable unused ports/services and default accounts, where possible, to minimize pathways for malicious attacks.
• Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
• Apply the latest updates and hotfixes to your Operating System and software.
• Use cybersecurity best practices (for example: least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

Available Languages of the Document

The document is available in these languages:

- English (PFCNT-QSG-EN)
- Japanese (PFCNT-QSG-JA)

Related Documents

Title of documentation	Reference number
Cybersecurity Best Practice	Refer to General Cybersecurity Information., page 5
HMI/IPC Cybersecurity Guide	PFHMIIPCCS-MM01-EN (ENG)
	PFHMIIPCCS-MM01-JA (JPN)

You can download the manuals related to this product, such as the other software manual, from the Pro-face download page (https://www.pro-face.com/trans/en/manual/1085.html).

Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive

terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

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Pro-face Connect

Overview

Pro-face Connect allows technicians and programmers to remotely monitor, diagnose, control, and program devices. This can significantly reduce the cost of maintaining devices and maximize device uptime. Remote access to the device is achieved by means of a private, point-to-point connection. Access to this connection is strictly controlled and all data sent and received on the connection is encrypted.

Supported Models

For a complete list of appliances that support Pro-face Connect, refer to Supported Models List.

> **NOTE:** Available models differ depending on the screen editing software you are using. Check the supported models of Pro-face Connect with your screen editing software (that is, GP-Pro EX or BLUE).

Use Case

This quick start guide presents a typical use case for the deployment of Pro-face Connect. It describes how to install and configure the components of a Pro-face Connect solution, then use them to control an HMI display unit located on a remote work site from a laptop computer located in a local office.

The following figure shows the use case:

> **NOTE:**
> • The HMI appliance and the PLC must be on the same local network at the work site. Modify all IP addresses that appear in this guide to those used on your network.
> • This document illustrates one possible use case. Pro-face Connect supports many different device types and architectures. Adapt the steps in this document to correspond to your environment.

Use Case Components

Overview

The following sections describe the components of the use case solution.

For overall system requirements, refer to Operating Environment.

Licenses

You must have applicable licenses to use Pro-face Connect.

For more information about the available license types, click on the following link: https://www.pro-face.com/trans/en/manual/1061.html.

This document assumes the use of a 30-day free trial pack of licenses, which includes:

- 1 x Pro-face Connect GateManager license
- 1 x Pro-face Connect SiteManager Extended 5 agents license
- 1 x Pro-face Connect LinkManager license
- 1 x Pro-face Connect LinkManager Mobile license

HMI/IPC Appliance

This use case assumes the use of a GP4000 Series touchscreen display unit compatible with the latest version of the GP-Pro EX (Ver. 4.07.100 or later).

> **NOTE:** The HMI appliance must have Internet access. For HMI appliances with no Web browser in the application, you can check this as follows:
>
> 1. Temporarily connect a PC at the same network connection point
> 2. Set the PC network settings to those of the HMI appliance
> 3. Start an Internet browser on the PC and check you can access Web pages.

This may require retrieving settings or obtaining authorization from the IT infrastructure of the work site. Only outbound authorization is required in most cases.

For a complete list of appliances that support Pro-face Connect, refer to Supported Model List.

SiteManager

The SiteManager software runs on the HMI appliance. It is installed on the appliance as part of GP-Pro EX RunTime.

To be registered with the GateManager component, SiteManager requires outgoing access to specific ports and protocols. At least one of the following outbound rules must be granted on the HMI appliance:

- TLS through Web proxy
- HTTPS to remote IP address of GateManager, remote port 443
- TLS over HTTP to remote IP address of GateManager, remote port 80

The SiteManager has a web user interface in order to configure it. The SiteManager web user interface is accessible from the GateManager web user interface.

LinkManager

The LinkManager software is installed on a laptop computer in the office and is typically used by service engineers. LinkManager allows secure remote access to devices.

This use case assumes:

- A laptop computer running Windows 10, 64-bit edition
- A Windows user account on the laptop computer with administrator privileges.
- Access to the Internet using the HTTPS protocol. This may need to be configured on the corporate firewall and/or the personal firewall on the PC.

LinkManager Mobile

LinkManager Mobile allows users to remotely access equipment via their iPhone, iPad or Android devices.

It is designed for accessing graphical interfaces on PLCs or HMIs, for example.

For more information, refer to the Pro-face Remote HMI FAQ on the Pro-face Website.

GateManager

The GateManager software runs on a Schneider Electric-hosted network server. You use GateManager to create secure, encrypted connections between appliances on the work site and the LinkManager software running on personal computers in the office. The Web-based user interface requires use of the HTTPS protocol. When you request a trial license, or purchase a license, a secure, private customer domain folder on the server is automatically created. Login credentials of a GateManager administrator account on this customer domain are then provided by email.

It is the role of the GateManager administrator to configure this domain. This involves:

- Attaching purchased licenses to SiteManager appliances.
- Creating subdomains for organizing equipment based on their purpose, access level, physical location, and so on.
- Verifying for the entire customer domain the network status of all SiteManager and LinkManager components.
- Creating and managing other GateManager administrator accounts and LinkManager user accounts.

⚠ **WARNING**
EQUIPMENT DAMAGE
• Before any maintenance action, ensure by phone that you have on-site agreement.
• Before any update, ensure that you have a stable Internet and electricity environment.
• In particular, do not use 3G through a mobile phone setup as tethering hotspot for any update
Failure to follow these instructions can result in death, serious injury, or equipment damage.

Device

This use case assumes the use of a PLC, which has a configurable Ethernet interface. The device must be physically connected to the HMI appliance with an Ethernet cable. Make a note of the Ethernet configuration details (IP address and subnet mask) of the device.

Pro-face Connect supports a wide range of both Schneider Electric and third-party devices.

Remote Monitoring Software

Pro-face Connect only establishes a connection to the appliance. Therefore, any remote monitoring software can be used provided that the network requirements (open ports, and so on) are met.

This use case assumes the use of GP-Viewer EX, installed on the same laptop computer as the LinkManager software.

Internet Browser

An Internet browser is required to access the Web-based user interfaces of LinkManager, SiteManager, and GateManager.

This document assumes the use of Google Chrome. Any recent version of Mozilla Firefox or Microsoft Edge can also be used.

Configuring a Web-Proxy Server

Depending on the network policies in place at the work site, outgoing connections to the Internet may be restricted (IP address range blocked, port range blocked, protocol types blocked, and so on). Both the SiteManager and LinkManager components may require a Web proxy to access the Internet.

If this is the case, contact the network administrator of your work site for help in setting up the connection to the Internet to use a Web proxy.

The SiteManager user interface, for example, allows you to configure a Web proxy:

Web-proxy Address. IP address of the Web proxy. An IP address, optionally followed by a colon (:) and a port number. For example, *10.11.0.100:9400* or *10.0.11.0.100* (port 80 is used by default).

Web-proxy Account. Web proxy user name, if any.

Web-proxy Password. Password for the Web proxy user name, if any.

> **NOTE:** For information on how to enter this interface, or details about each setup item, refer to the *GP-Pro EX Reference Manual*.

Installation Overview

Installation Steps

> ## ⚠ WARNING
>
> **UNINTENDED EQUIPMENT OPERATION**
>
> This product must be installed and configured by qualified software installation staff with administrator rights.
>
> **Failure to follow these instructions can result in death, serious injury, or equipment damage.**

Perform the steps in the following order:

1. Connect to the GateManager user interface, page 14
2. Create user accounts, page 16
3. Enable the SiteManager connection of the HMI appliance to GateManager, page 18
4. Register the HMI appliance with SiteManager, page 19
5. Create an agent, page 21
6. Install LinkManager, page 23
7. Log in to LinkManager and test the connection, page 24
8. Connect to the appliance remotely

   NOTE: When using Pro-face Remote HMI with Pro-face Connect, it is required to set up the Pro-face Connect LinkManager Mobile parameters into the Pro-face Remote HMI user interface. To configure Pro-face Remote HMI, refer to the Pro-face Remote HMI FAQ on the Pro-face Website.

Step 1: Connecting to the GateManager
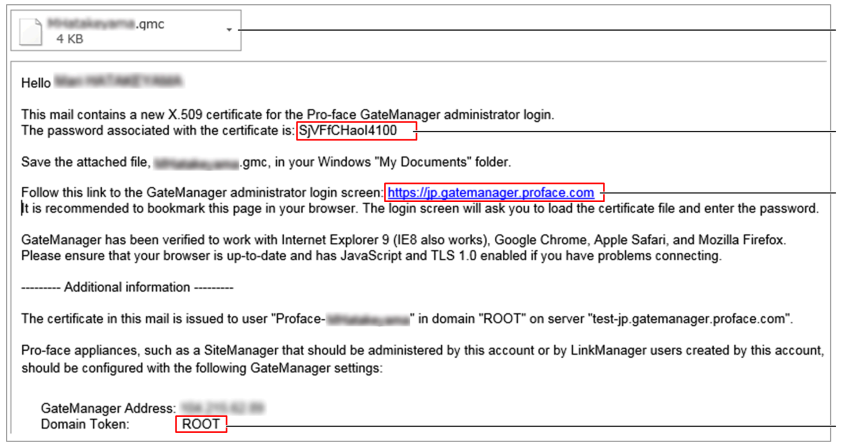
Overview
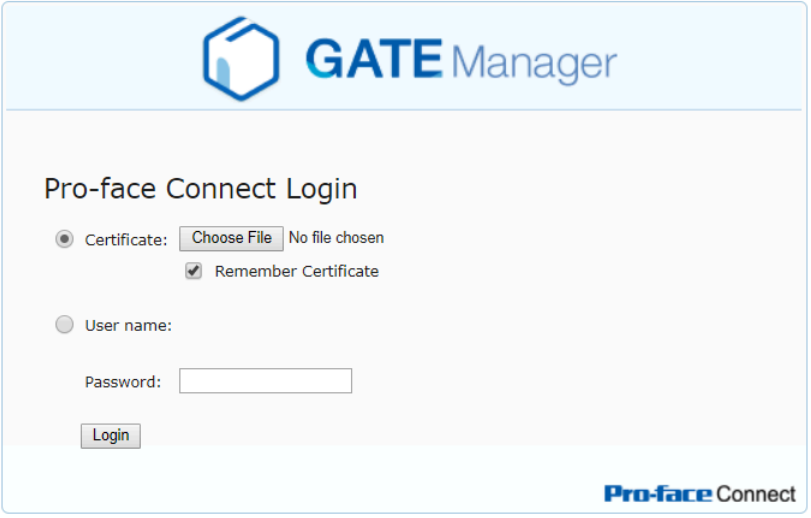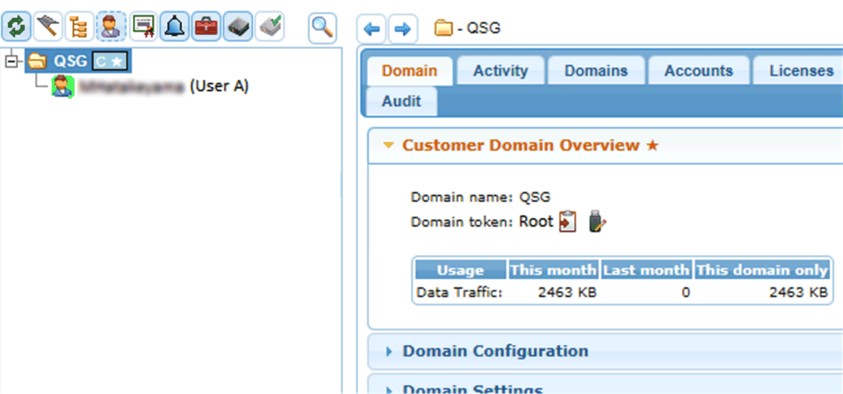
The first step is to request a trial license for Pro-face Connect, then log in to the GateManager user interface using the credentials provided. This step can be done on the laptop computer in the office or any other computer.

Obtaining a Trial License

Step	Action
1	Contact your country's point of sale.
2	Ask for a Pro-face Connect trial, by providing an email address for receiving the credentials of a user account for the usage of such a trial. **Result:** A message is sent to the email address you provide.

Logging In to GateManager

Step	Action
1	Open the email that you receive, which contains all the information you need to log in to GateManager. For example: **1** Attached certificate file, with a *.gmc* (GateManager Certificate) extension **2** Password to use with the certificate **3** Web site address to use to log in to the GateManager user interface **4** This domain token value is later used in the GP-Pro EX RunTime of the HMI appliance. It is used to register the appliance in the GateManager customer domain.
2	Save the GateManager certificate attached to the email to the local file system.
3	Click the GateManager link in the received email (or copy and paste the link into a Web browser) to access the GateManager Login window:

Step	Action
4	Select the **Certificate** option. **NOTE:** Logging in with a certificate offers improved cybersecurity and is the only option recommended by Schneider Electric.
5	Click **Choose a file**, then browse and select the GateManager certificate you saved previously.
6	Enter the password contained in the received email.
7	Click **Login**. **Result:** The GateManager user interface is displayed:

Step 2: Creating User Accounts
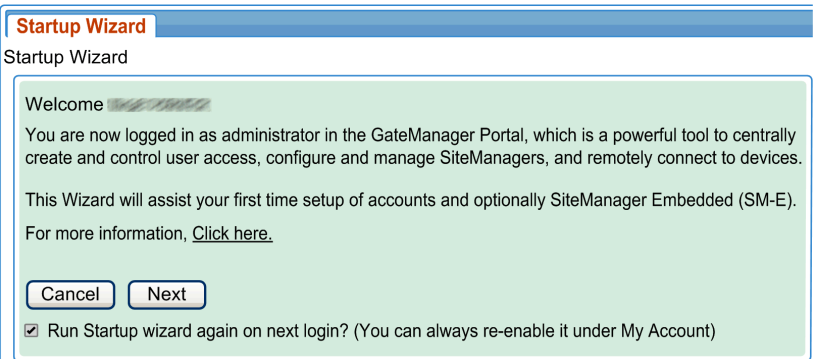
Overview
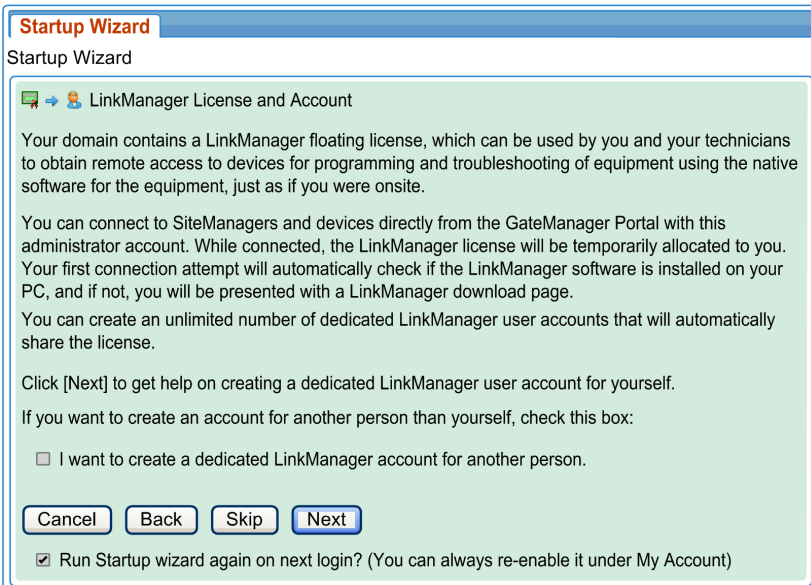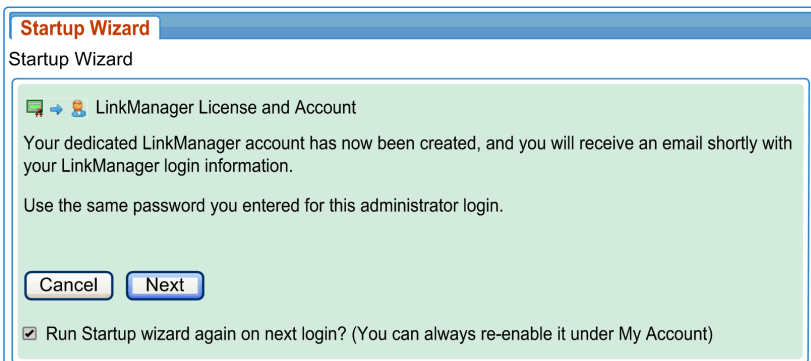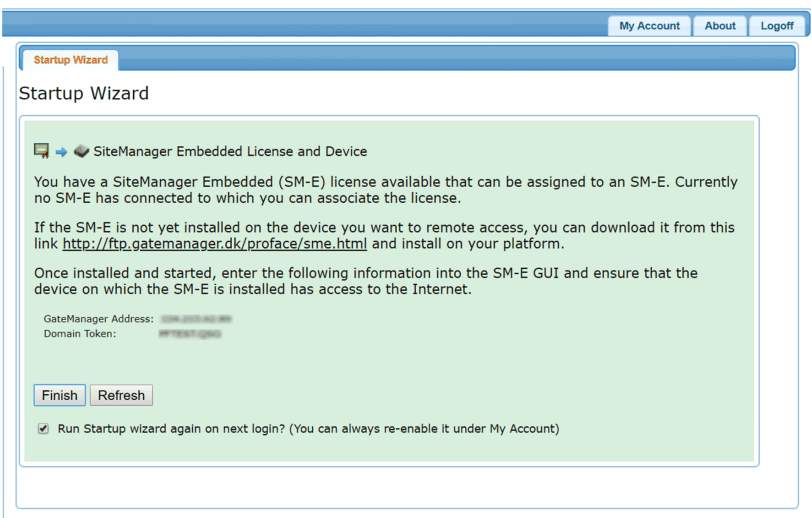
Once you have accessed the GateManager user interface, the next step is to create user accounts.

GateManager Account Type	Description
Domain Administrator	An option provided by the Premium Access add-on. Allows customers to administer their own customer domain. Allows the creation of sub-domains to manage customers and/or have complete control over which LinkManager users can assess which agents. NOTE: For sales status, please contact your country's point of sale.
Basic Administrator	Standard administrator role managing the customer domain. Performs tasks such as license management and controlling LinkManager.
LinkManager User	The user role for a technician or expert: the physical person who establishes the connection from the laptop computer to the HMI appliance.

Before starting, take time to consider these roles within your organization. There may be more than one role per person, depending on the size of your organization. Therefore, you may require to create multiple accounts for the same physical person.

Creating the Domain Administrator, the Basic Administrator, and the LinkManager User Accounts

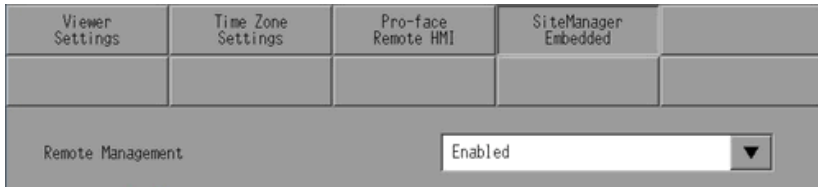| Step	Action
1	The first time you log in to the GateManager user interface, a wizard screen is displayed on the right: **Startup Wizard** Startup Wizard Welcome You are now logged in as administrator in the GateManager Portal, which is a powerful tool to centrally create and control user access, configure and manage SiteManagers, and remotely connect to devices. This Wizard will assist your first time setup of accounts and optionally SiteManager Embedded (SM-E). For more information, Click here. Cancel Next ☑ Run Startup wizard again on next login? (You can always re-enable it under My Account)
2	Click **Next**. The following wizard screen is displayed:

Step	Action
	Startup Wizard Startup Wizard LinkManager License and Account Your domain contains a LinkManager floating license, which can be used by you and your technicians to obtain remote access to devices for programming and troubleshooting of equipment using the native software for the equipment, just as if you were onsite. You can connect to SiteManagers and devices directly from the GateManager Portal with this administrator account. While connected, the LinkManager license will be temporarily allocated to you. Your first connection attempt will automatically check if the LinkManager software is installed on your PC, and if not, you will be presented with a LinkManager download page. You can create an unlimited number of dedicated LinkManager user accounts that will automatically share the license. Click [Next] to get help on creating a dedicated LinkManager user account for yourself. If you want to create an account for another person than yourself, check this box: ☐ I want to create a dedicated LinkManager account for another person. [Cancel] [Back] [Skip] [Next] ☑ Run Startup wizard again on next login? (You can always re-enable it under My Account)
3	Click **Next**. The following wizard screen is displayed: **Startup Wizard** Startup Wizard LinkManager License and Account Your dedicated LinkManager account has now been created, and you will receive an email shortly with your LinkManager login information. Use the same password you entered for this administrator login. [Cancel] [Next] ☑ Run Startup wizard again on next login? (You can always re-enable it under My Account) **Result:** An email is sent to the address you specified when requesting the trial license, page 14. You will use this email later to install LinkManager, page 23.
4	Click **Next**. The final page of the wizard is displayed: My Account About Logoff Startup Wizard Startup Wizard SiteManager Embedded License and Device You have a SiteManager Embedded (SM-E) license available that can be assigned to an SM-E. Currently no SM-E has connected to which you can associate the license. If the SM-E is not yet installed on the device you want to remote access, you can download it from this link http://ftp.gatemanager.dk/proface/sme.html and install on your platform. Once installed and started, enter the following information into the SM-E GUI and ensure that the device on which the SM-E is installed has access to the Internet. GateManager Address: Domain Token: [Finish] [Refresh] ☑ Run Startup wizard again on next login? (You can always re-enable it under My Account)
5	Click **Finish**.

Step 3: Enabling the SiteManager Connection of the HMI Appliance to GateManager

Overview

The next step is to enable the SiteManager software on the HMI appliance and establish a network connection between the appliance—physically located on the work site—and the GateManager server.

Activating and Configuring the SiteManager Software

Step	Action
1	Enter **Offline** mode, then on the menu touch **Main Unit Settings** - **Remote Viewer Settings**, and select **SiteManager Embedded**. **NOTE:** • When **SiteManager Embedded** is not available, use GP-Pro EX Ver.4.07.100 or later to transfer the system to the display unit. • For information on how to enter **Offline** mode, or details about each setup item, refer to the GP-Pro EX Reference Manual. You can download the manual from the Pro-face support site.
2	Set the **Remote Management** option to **Enabled**:
3	Specify the following items: 1. In the **GateManager Address** field, type the IP address of the GateManager server. This address is contained in the email you received when registering your trial version of Pro-face Connect. Refer to Logging in to GateManager, page 14 2. In the **Domain Token** field, type the domain token assigned to you, "***-Inc". This is contained in the email you received when registering your trial version of Pro-face Connect. Refer to Logging in to GateManager, page 14 3. In the **Appliance Name** field, type a unique name for your appliance, for example "GP-4601T". This name is later used to identify the appliance in the GateManager user interface. If the HMI appliance has been previously configured, it is strongly recommended to click the **Reset to default** button in the bottom left of the window to return SiteManager to its factory default settings. **NOTE:** If your appliance uses a proxy server, you may also need to complete the **Web-proxy Address**, **Web-proxy Account**, and **Web-proxy Password** fields. Refer to Configuring a Web-Proxy Server, page 11.
4	Click the **Apply Changes** button. **Result:** In a few seconds, the indicator next to the **Status** turns green to indicate a successful connection to your domain on the GateManager server:
5	To exit **Offline** mode, touch **Exit**.

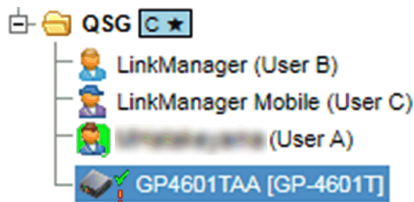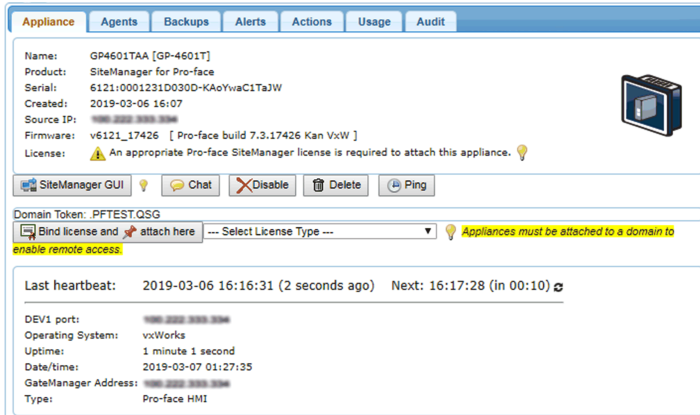# Step 4: Registering an Appliance on GateManager

Overview

Every HMI/IPC appliance and device deployed as part of a Pro-face Connect solution must be associated with a license you have purchased. This association is made in the GateManager user interface.

Associating the HMI Appliance with a SiteManager License

NOTE: This may already have been done when using the wizard to create user accounts, page 16.

Step	Action
1	If you are not already logged in, log in to the GateManager user interface (see Connection to the GateManager, page 14).
2	In the **Tree** tab on the left, find the following entry: **1** Number of available licenses remaining **2** Number of SiteManager agent licenses available A SiteManager agent is a user-defined rule for building a remote connection to either the SiteManager appliance or a device connected to the SiteManager appliance on the work site. Creating an Agent, page 21 describes how to create the rule for this use case. Either a **SiteManager Extended, 5 Agents** license (included in the trial version) or a **SiteManager Extended, 10 Agents** license, page 9 is required for this use case. Make sure that there is at least one available license. If the license icon is red and 0 appears (), there are no more available licenses. In this case, return to the Pro-face Connect web site or contact your reseller to purchase additional licenses.

Step	Action
3	In the **Tree** tab on the left, select the appliance to register. Appliances are labeled with the domain prefix and appliance name you assigned in GP-Pro EX RunTime when configuring the connection to GateManager: The properties of the appliance appear in the **Appliance** tab on the right.
4	Click **Bind license and attach here**. **Result:** The appliance is associated with the SiteManager licence. Notice that the number of available licenses in the **Tree** view on the left is reduced by 1.

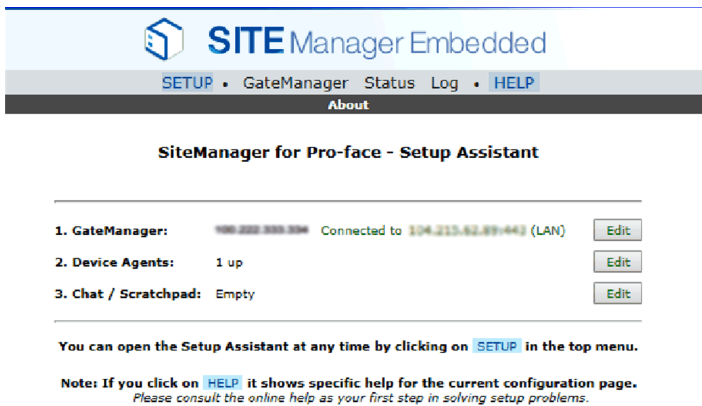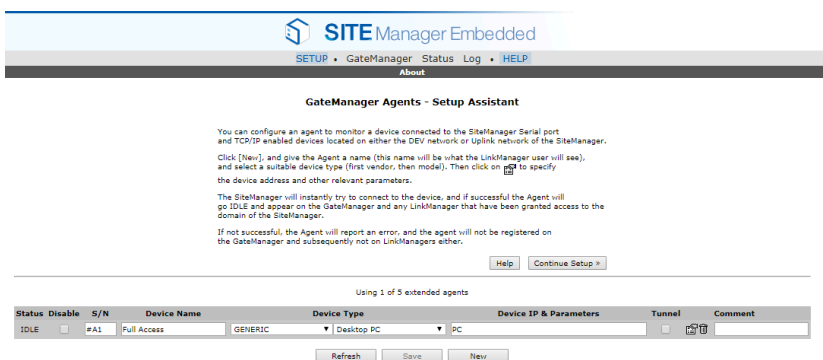# Step 5: Creating an Agent

Overview

The next step is to create an agent that will allow direct access to the Ethernet interface of the PLC at the work site.
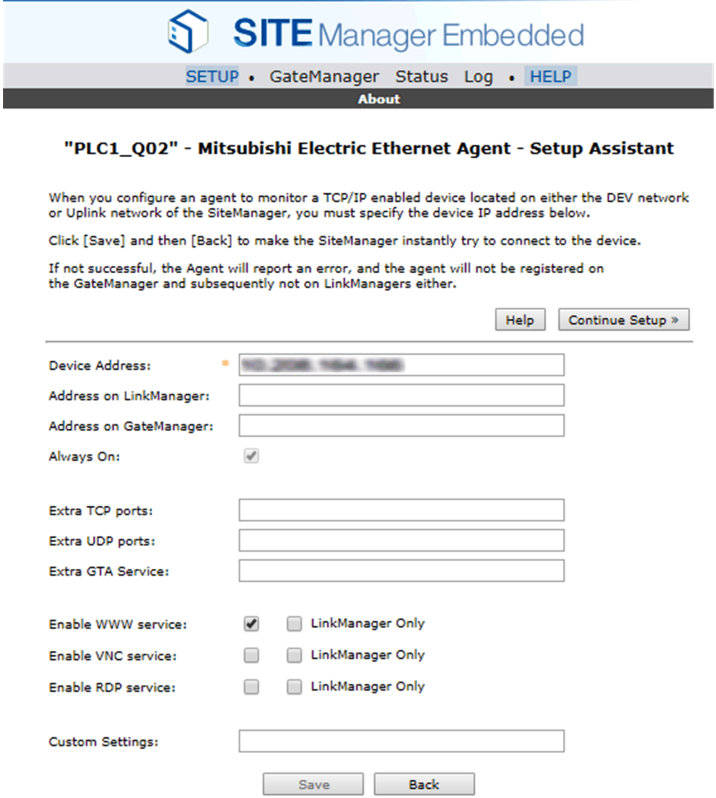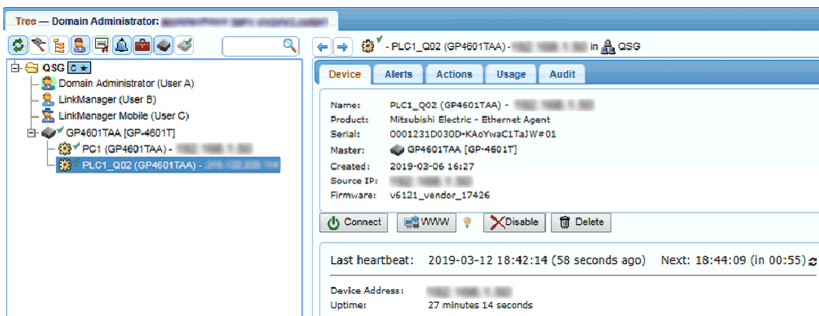
An agent is a user-defined rule containing all the parameters necessary for LinkManager to connect to an individual device. To connect to 5 devices, for example, you would need to create 5 different agents. The license in the trial version is an extended 5 license: up to 5 agents can be used with this appliance, permitting up to 5 extended devices behind the HMI/IPC appliance. Extended devices are those accessible from the HMI/IPC appliance over the network of the work site.

It is also possible for multiple agents to connect to the same device: for example one to establish an FTP connection to the device, and another to build a GP-Pro EX project transfer connection to the device.

Creating an Agent

Proceed as follows:

Step	Action
1	On the PC logged in to the GateManager user interface, page 14, right-click on the **GP-4601T** appliance in the **Tree** tab on the left and choose **Open SiteManager GUI**. **Result:** The SiteManager user interface opens in a new browser tab:
2	Click the **Edit** button next to **Device Agents**. **Result:** A list of existing agents appears:
3	Click **New**.
4	Specify the following information:

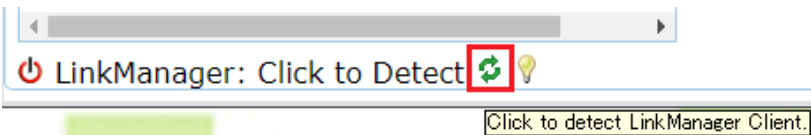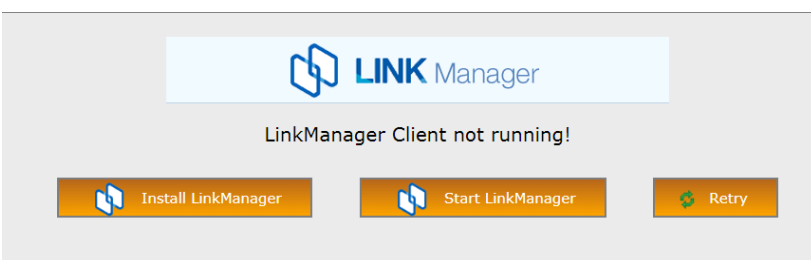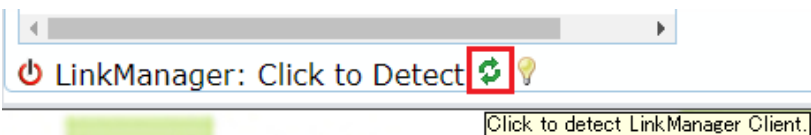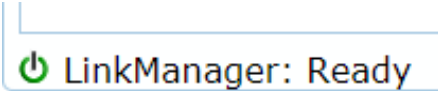| Step	Action
	• **Device Name**: PLC1_Q02
	• **Device Type**: Mitsubishi Electric / Ethernet
	NOTE: The **Device Type** list box contains the default agent definitions for access to all supported devices (port rules, and so on).
	The **GENERIC** device type provides full access to the device.
	PC in the **Device IP & Parameters** column refers to the IP address of the appliance. **PC** can also be selected for HMI appliances.
5	Click the **Parameter Details** button to display additional parameters: Specify: • **Device Address**. The IP address of the PLC • **Always On**. Selected
6	Click **Save** then **Continue Setup**. **Result:** The new agent is added to the list of agents. If SiteManager can communicate with the device, the device status changes to **IDLE** after a few seconds, indicating that a connection has been made to the device but data is not yet being exchanged.
7	Close the browser tab to return to the GateManager user interface.
8	In the **Tree** tab on the left, select the new agent, which appears below the **GP-4601T** appliance: **Result:** The status of the device appears in the **Device** tab on the right.

Step 6: Installing LinkManager

Overview

The next step is to install LinkManager on the laptop computer in the local office.

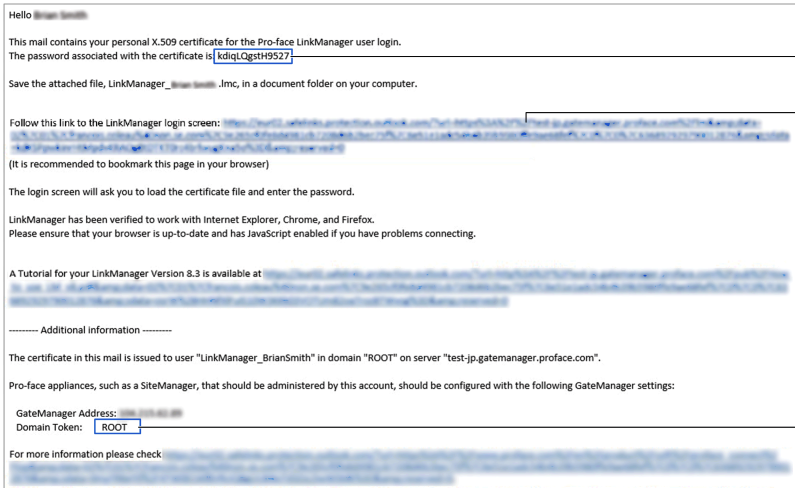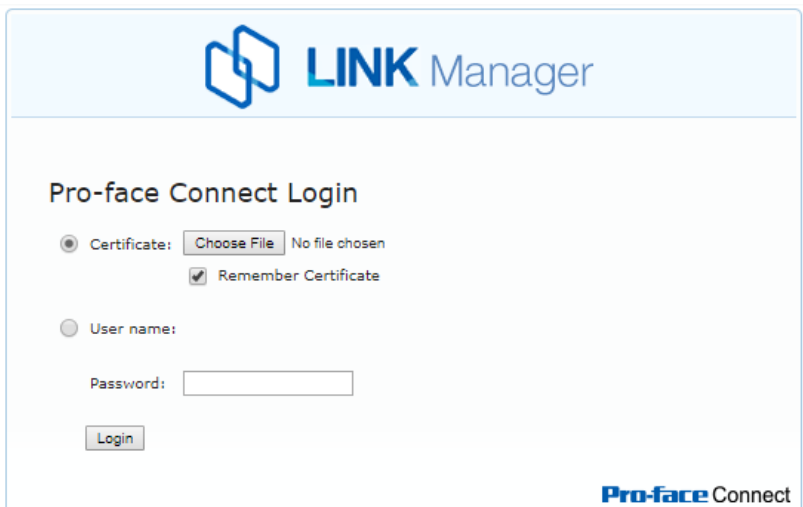## Installing LinkManager

To install LinkManager:

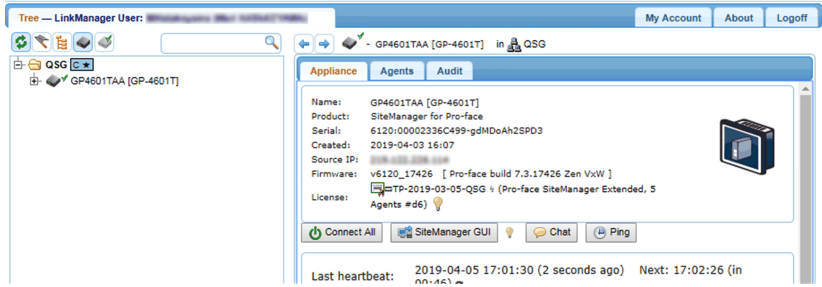| Step	Action
1	If you are not already logged in, log in to the GateManager user interface (see Connection to GateManager, page 14) on the laptop computer in the office.
2	Click the Refresh icon in the bottom left corner of the GateManager window: **Result:** GateManager checks whether the LinkManager software is installed on the laptop computer.
3	The following window appears: Click **Install LinkManager**.
4	A message appears asking whether you want to save the setup file. Click **Run** to launch the setup program.
5	Click **Run** on the security warning window that appears. **Result:** The LinkManager software is installed on the laptop computer. When installation is complete, a LinkManager icon appears in the Windows system tray in the bottom right of the screen.
6	Return to the GateManager window and click the Refresh icon in the bottom left of the window again: This time, the installed LinkManager software is detected and the message changes to **LinkManager: Ready**: LinkManager is now installed and ready for use.

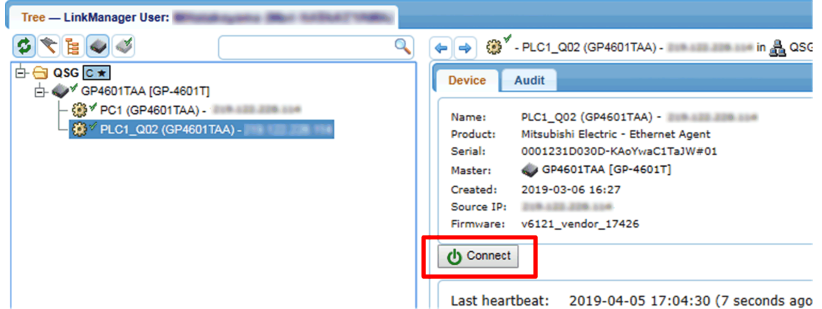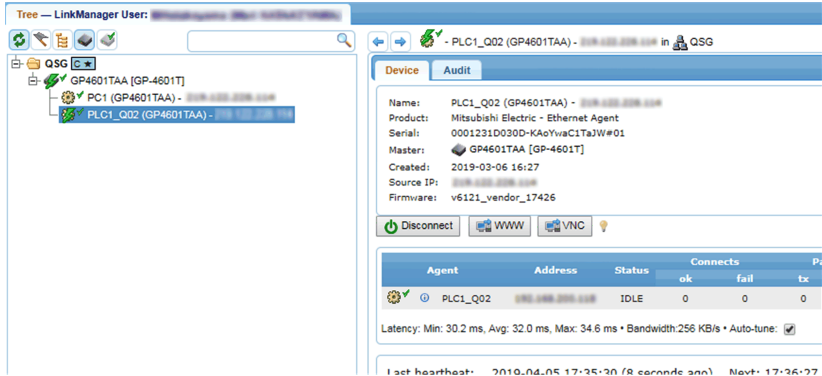# Step 7: Starting LinkManager and Connecting to Device

Overview

The next step is to log in to LinkManager on the laptop computer and view data generated by the device.
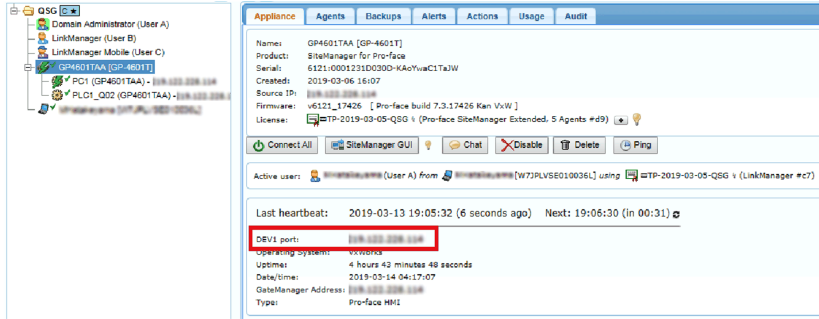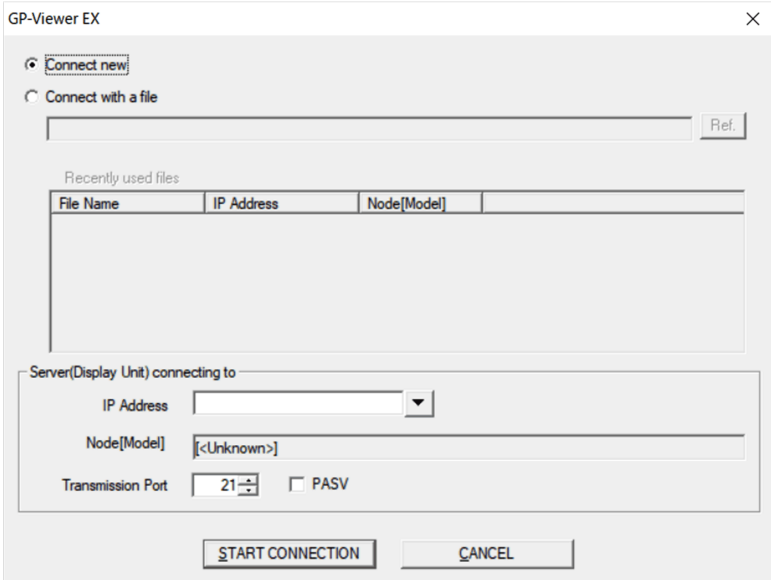
Logging in to LinkManager

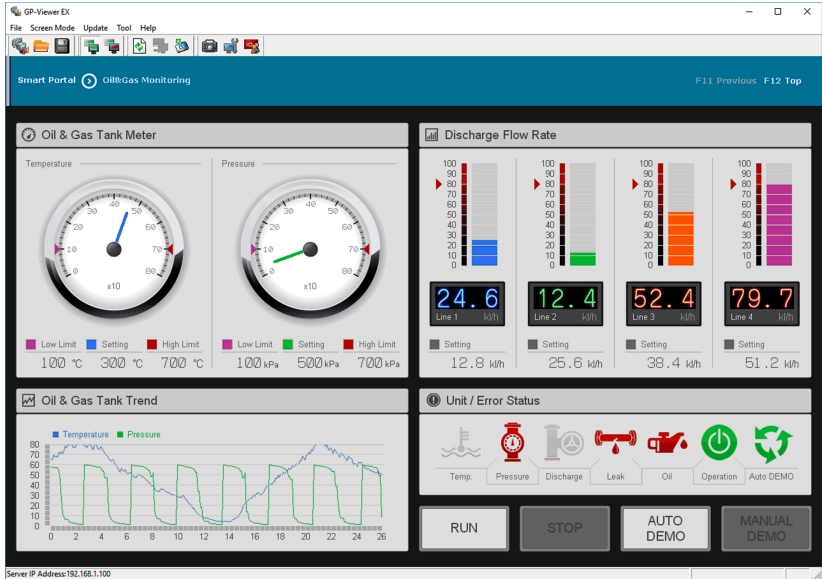| Step	Action
1	Open the email you received after creating the LinkManager user account (see Creating the Domain Administrator, the Basic Administrator, and the LinkManager User Accounts, page 16). For example: Hello Brian Smith This mail contains your personal X.509 certificate for the Pro-face LinkManager user login. The password associated with the certificate is kdiqLOgstH9527 — **1** Save the attached file, LinkManager_Brian Smith .lmc, in a document folder on your computer. Follow this link to the LinkManager login screen: ... — **2** (It is recommended to bookmark this page in your browser) The login screen will ask you to load the certificate file and enter the password. LinkManager has been verified to work with Internet Explorer, Chrome, and Firefox. Please ensure that your browser is up-to-date and has JavaScript enabled if you have problems connecting. A Tutorial for your LinkManager Version 8.3 is available at ... --------- Additional information --------- The certificate in this mail is issued to user "LinkManager_BrianSmith" in domain "ROOT" on server "test-jp.gatemanager.proface.com". Pro-face appliances, such as a SiteManager, that should be administered by this account, should be configured with the following GateManager settings: GateManager Address: ... Domain Token: ROOT — **3** For more information please check ... **1** Password associated with the certificate **2** Address to use to log in to the LinkManager user interface **3** Domain token prefix used to identify appliances
2	The default Web browser is launched and the LinkManager login window appears: **LINK** Manager Pro-face Connect Login Certificate: Choose File No file chosen ☑ Remember Certificate User name: Password: Login **Pro-face** Connect
3	Select the **Certificate** option. **NOTE:** Logging in with a certificate offers improved cybersecurity and is the only option recommended by Schneider Electric.
4	Click **Choose** and select the previously downloaded LinkManager certificate file.

Step	Action
5	Enter the password from the email you received.
6	Click **Login**.
	Result: The Link Manager user interface appears:
	NOTE: The LinkManager user interface is very similar to that of the GateManager.

Connecting to the PLC

Step	Action
1	In the **Tree** tab on the left of the LinkManager user interface, expand the domain structure and select first the **GP-4601T** device, then the **PLC1_Q02** agent that you created earlier in GateManager, page 21.
	Result: The device properties appear in the **Appliance** tab on the right.
2	Click the **Connect** button on the right:
	NOTE: You could also select the **GP-4601T** appliance on the left, then click the **Connect All** button that appears on the right to connect all agents defined for the appliance simultaneously.
	Result: The PLC connection details appear:
	A secure connection has now been established between LinkManager and the device.
	NOTE: You can also click the **WWW** button on the right to log in to the web site embedded in the PLC. This allows you to directly monitor the controller, view diagnostics, and perform a number of maintenance operations (including stopping and starting the controller).

Remotely Accessing the HMI Appliance with GP-Viewer EX

Step	Action
1	Log in to GateManager.
2	In the **Tree** tab on the left of the GateManager user interface, select the HMI appliance to connect. Confirm the IP address in the **DEV1 port**.
3	Start GP-Viewer EX. Set the IP address confirmed in **DEV1 port** to **Server (Display Unit) connecting to** area's **IP Address** field. **NOTE:** Select **PASV** when connection problems occur due to network security.

Step	Action
4	Click **START CONNECTION**.
5	The screen of the HMI appliance appears on GP-Viewer EX. **NOTE:** For more details on GP-Viewer EX set up procedure, refer to the *GP-Viewer EX Operation Manual*.

Glossary

A

agent:

An object that contains all the parameters necessary for LinkManager, LinkManager Mobile, and Pro-face Remote HMI to connect to a remote device. For example, an agent might specify use of the FTP protocol, the IP address of the device, and use of the standard FTP port number.

appliance:

An HMI/IPC display unit that LinkManager can connect to.

D

device:

A device, such as a Programmable Logic Controller (PLC), that connects to a display unit.

display unit:

Indicates a touch-panel display unit manufactured by Schneider Electric for displaying the screen interface designed in Screen Editor or Logic Program Software.

domain token:

A text string provided to you when you register Pro-face Connect. When concatenated with the appliance name, uniquely identifies appliances in your domain.

domain:

A private area of the GateManager software in which to configure and manage users, appliances, licenses, audit logs, alerts, automated actions, and so on.

G

GateManager:

It is used for user administration and access control for LinkManager, and acts as communication broker between LinkManager and SiteManager.

H

HTTPS:

Hyper Text Transfer Protocol Secure

L

LinkManager Mobile:

The software installed on your tablet or your smartphone, allows remote access to HMI appliances.

LinkManager:

The software installed on your computer, allows remote access to SiteManager and/or devices represented by agents on the SiteManager.

P

Pro-face Remote HMI:

The app installed on your tablet or your smartphone, allows remote access to HMI appliances.

S

SiteManager Embedded Basic:

One of the license formats required to use SiteManager Embedded. Allows access to the display unit and registration of up to two agents.

SiteManager Embedded Extended:

One of the license formats required to use SiteManager Embedded. Allows access to external IP devices – such as PLCs, IPCs, server, Web camera, and so on, on the same network as the display unit, and registration of five agents or more.

SiteManager Embedded:

Software used to set up access to the Pro-face Connect network. This software may not be required as you can set up the network connection from the offline screen of some display units.

SiteManager:

Refers to display units on the work site connected to the Pro-face Connect network.

subdomain:

A logical division of a domain, useful for organizing equipment based on purpose, access level, physical location, and so on.

T

TLS:

Transport Layer Security

PFCNT-QSG_04