

# Vijeo Connect

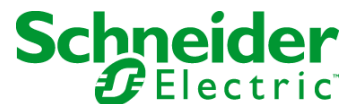
## User Guide

### For GateManager

02/2017

EIO0000002449.03

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When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

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# Safety Information

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## Important Information

### NOTICE

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.

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## 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.

## Before You Begin

 <b>WARNING</b>
<b>UNINTENDED EQUIPMENT OPERATION</b> <ul style="list-style-type: none"><li>• Only use software approved by Schneider Electric for use with this equipment.</li><li>• Update your application program every time you change the physical hardware configuration.</li></ul> <b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b>

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# About the Book

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## At a Glance

### Document Scope

This document describes the connection setup, connection status, and operation of Vijeo Connect. The Vijeo Connect provides secure remote access to you as if you were on-site (allow remote programming just as you are on site to save travel cost and reduce machine downtime).

**NOTE:** Read and understand this document and all related documents before installing, operating, or maintaining your Vijeo Connect.

The Vijeo Connect users should read through the entire document to understand all features.

The Vijeo Designer (VJD) or Vijeo XD (VXD) users should read through the entire document to understand all features. See [Vijeo Designer](#) or [Vijeo XD](#).

### Validity Note

This document has been updated for the release of Vijeo Designer V6.2 SP5.1, SoMachine V4.3 and Vijeo XD V2.4.

### Related Documents

Title of Documentation	Reference Number
Vijeo Connect Troubleshooting Guide for LinkManager (Starting and Connecting)	<a href="#">EIO0000002450 (ENG)</a> <a href="#">EIO0000002568 (FRE)</a> <a href="#">EIO0000002569 (GER)</a> <a href="#">EIO0000002570 (SPA)</a> <a href="#">EIO0000002571 (ITA)</a> <a href="#">EIO0000002572 (CHS)</a>
Vijeo Connect User Guide for Security Setting	<a href="#">EIO0000002451 (ENG)</a> <a href="#">EIO0000002573 (FRE)</a> <a href="#">EIO0000002574 (GER)</a> <a href="#">EIO0000002575 (SPA)</a> <a href="#">EIO0000002576 (ITA)</a> <a href="#">EIO0000002577 (CHS)</a>

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Title of Documentation	Reference Number
Vijeo Connect Troubleshooting Guide for SiteManager	<a href="#"><u>EIO0000002452 (ENG)</u></a> <a href="#"><u>EIO0000002578 (FRE)</u></a> <a href="#"><u>EIO0000002579 (GER)</u></a> <a href="#"><u>EIO0000002580 (SPA)</u></a> <a href="#"><u>EIO0000002581 (ITA)</u></a> <a href="#"><u>EIO0000002582 (CHS)</u></a>

You can download these technical publications and other technical information from our website at <http://www.schneider-electric.com/en/download>



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# Chapter 1

## Introduction

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### What Is in This Chapter?

This chapter contains the following topics:

Topic	Page
Prerequisites on Using This Guide	10
Concept of Vijeo Connect	11
Operating Environment	13
Supported Model List	14
License and System Configuration	15

## Prerequisites on Using This Guide

### Prerequisites

Prerequisites on using this guide are:

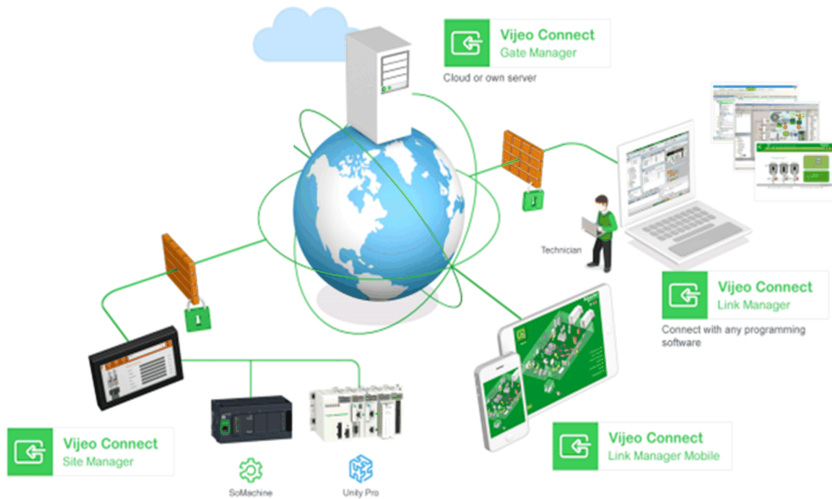
- You have administrator privileges to install a program on your Windows PC or laptop.
- Your PC has outgoing access to the Internet through https. This applies to both your corporate firewall and any personal firewall installed on your PC.
- You have a SiteManager Embedded license.
- You have received, by email, a GateManager Administrator certificate with a link to the GateManager Web portal.

## Concept of Vijeo Connect

### What Is Vijeo Connect?

When you want to display or operate on a personal computer or smart device, the screens of display units in remote locations, you need a system to prevent unauthorized access from external sources.

With Vijeo Connect serving the role of router, as long as you have an Internet connection, you can construct such a system.



Vijeo Connect is structured to connect safely display units on the work site (SiteManager), with computers or smart devices in the office (LinkManager), over a server (GateManager).

- **GateManager:**  
Server for creating a safe encrypted connection between display units on the work site (SiteManager) and personal computers or smart devices in the office (LinkManager). You can use GateManager to check the network connection status of SiteManager and LinkManager. The GateManager Administrator registers the SiteManager and LinkManager and allows access to the network.
- **SiteManager:**  
Display unit having SiteManager Embedded running is called SiteManager. Setup for accessing the network is handled from the software; SiteManager Embedded.
- **LinkManager:**  
Software installed on the computers. It allows remote access to SiteManager and/or devices represented by agents on the SiteManager. Setup for accessing the network is handled by GateManager. For remote monitoring and operation, you can use data collection and remote monitoring software as the LinkManager.

Different configurations are possible depending on the package which you purchase. Refer to the license that comes with each package:

- Webgate
- SoMachine
- Vijeo Designer
- Vijeo XD

 **WARNING**

**EQUIPMENT DAMAGE**

- Before performing maintenance, ensure by phone that you have on-site agreement.
- Before any update, ensure that you have a stable Internet and electricity environment.
- More particularly, 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.**

## Operating Environment

### 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.**

The following table lists the system requirements for Vijeo Connect.

Requirements	Description
Models	For a list of the display unit models that support Vijeo Connect, refer to Supported Model List ( <i>see page 14</i> ).
PC	Windows PC/AT compatible machine
Operating system	<ul style="list-style-type: none"> <li>● GateManager/LinkManager Windows 8/Windows 8.1/Windows 7/Windows Vista (All editions for 32/64 bit versions).</li> <li>● SiteManager For information about the operating system installed on a display unit, refer to its corresponding hardware manual.</li> </ul>
Other non-operating-system programs	Browsers: Internet Explorer 9 or later, Google Chrome, Apple Safari, Mozilla Firefox.
Network settings	<p>Port/Protocol: SiteManager runs all its communication using one of the following ports or protocols. Use in an environment that supports the port or protocol.</p> <ul style="list-style-type: none"> <li>● Port 11444</li> <li>● Port 443 with HTTPS/TLS</li> <li>● Port 80 with TLS over HTTP</li> <li>● TLS through Web-proxy</li> </ul> <p>For details, refer to Vijeo Connect Troubleshooting Guide for LinkManager (LinkManager connection methods).</p>

## Supported Model List

The following tables list the display units supported by Vijeo Connect:

- Magelis industrial PC (iPC) series
- Magelis HMI series

### IPC Series

For details about the reference, refer to the corresponding hardware manual for your display unit.

iPC	Model	Part numbers
S-Panel iPC	S-Panel iPC Performance and Optimized	HMIPSP, HMIPEP, and HMIPSO
Box iPC	Box iPC Modular and Display Universal and Performance	HMIBMU and HMIBMP
	Box iPC Universal	HMIBSU

### HMI Series

For details about the reference, refer to the corresponding hardware manual for your display unit.

HMI	Model	Part numbers
HMIGTU	HMIGTU terminals <sup>*1</sup>	HMIG3U HMIG5U HMIG5U2
HMIGTO	HMIGTO terminals	HMIGTO1310 HMIGTO2310 - HMIGTO2315 HMIGTO3510 HMIGTO4310 HMIGTO5310 - HMIGTO5315 HMIGTO6310 - HMIGTO6315
*1 For the display modules you can mount, refer to the Hardware Manual.		

**NOTE:** Vijeo XD supports only HMIGTU.

## License and System Configuration

### License Format

License formats are divided largely into two groups:

- SiteManager Embedded Basic
- SiteManager Embedded Extended

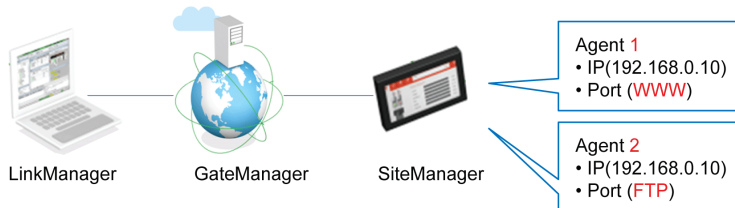
**NOTE:** The combination of licenses, which you purchase changes the system configurations you can have.

### SiteManager Embedded Basic

Only for accessing a display unit itself, you can register up to 2 Agents (access methods) per display unit.

When the display unit has multiple Ethernet interfaces, you can set up an Agent for each interface.

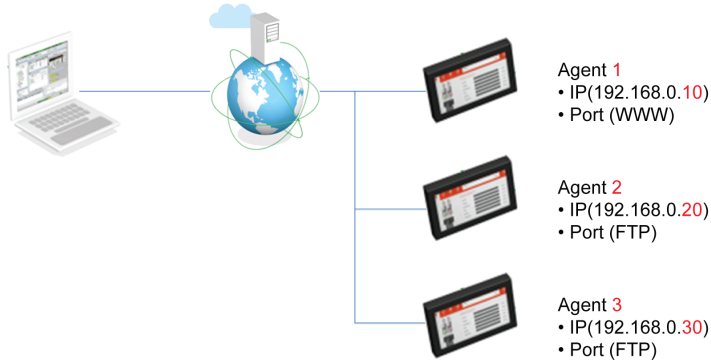
When different ports are used with a single interface, you can set up an Agent for each port.



### SiteManager Embedded Extended

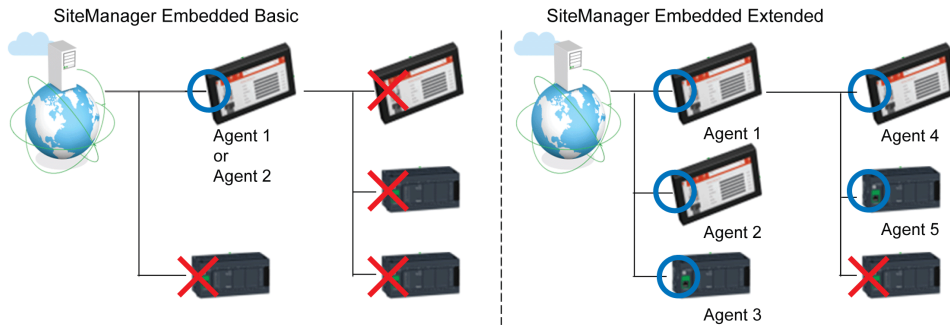
You can access external IP devices (such as PLCs, IPCs, Server, Web camera, and so on) on the same network as the display unit, and register Agents.

As you can connect multiple devices with different IP addresses, you can also register multiple Agents.



**NOTE:**

- All the ports are open by default. Change to the port as used by your application. Make changes to settings from the SiteManager GUI (**Edit from Device Agents**).
- The devices without a registered Agent are not accessible from Vijeo Connect.





## Standard Package Content

Package name	Data traffic per month	Amount of LinkManager for PC	Amount of SiteManager
Free trial (30 days)	N/A	1 x license included	1 x SiteManager Embedded Extended 5 License <sup>*6</sup>
Pack 1 <sup>*1*2*4</sup>	1 GB <sup>*5</sup>	1 x license included	15 x SiteManager Basic licenses <sup>*7</sup>
Pack 2 <sup>*1*2*3*4</sup>	5 GB <sup>*5</sup>	3 x license included	25 x SiteManager Basic licenses <sup>*7</sup>
Pack 3 <sup>*1*3</sup>	10 GB <sup>*5</sup>	5 x license included	40 x SiteManager Basic licenses <sup>*7</sup>

<sup>\*1</sup> One package per customer account. One customer can have multiple accounts. Each package is charged as a renewable service on a yearly basis, except for the trial package. Customers may request termination of their yearly contract at least one month in advance of the end date. At the end date of a terminated contract, the customer account is closed and all associated options are lost.

<sup>\*2</sup> Pack 1 can be upgraded to pack 2 or 3 at any time during the yearly subscription period. Pack 2 can be upgraded to pack 3 at any time during the yearly subscription period.

<sup>\*3</sup> Pack 2 and 3 can be downgraded at the beginning of a renewed yearly subscription period, only after the customer provides a list of LinkManager to be deactivated at least one month in advance of the contract renewal date.

<sup>\*4</sup> A subsequent package upgrade on the same customer account can only be requested six months after the last package downgrade was performed.

<sup>\*5</sup> Excess data cannot be carried over to the next month. The data traffic is calculated per month and over usage will be invoiced at the end of the yearly package subscription period, or at the renewal date of the yearly package subscription period.

<sup>\*6</sup> SiteManager Embedded Extended 5 gives access to the on-site touch panel and five of its connected drives and PLCs.

<sup>\*7</sup> SiteManager Basic gives access to the on-site touch panel. For OEM machine builders the amount of SiteManager is increased at yearly package renewal to allow continued remote support to their end-customers (for Pack 1, 15 new SiteManager licenses on package renewal, for Pack 2, 25 new SiteManager licenses on package renewal, for Pack 3, 40 new SiteManager licenses on package renewal)

## Extending a Standard Package <sup>\*8</sup>

Option name	Quantity	Description
Data package	1 GB per month	Extra data traffic over the subscription plan.
LinkManager	1 x license	LinkManager to add remote PCs.
SiteManager Basic	5 x licenses	SiteManager activations on-site HMI.
SiteManager Embedded Extended 5	1 x license	SiteManager access to five connected drives, cameras, PLCs, and so on.
SiteManager Embedded Extended 10	1 x license	SiteManager access to ten connected drives, cameras, PLCs, and so on.
GateManager Premium Access	1 x license per customer account	Premium functionality in the GateManager cloud.
User statistics	1 x license per customer account	View statistics of user login and data usage.
*8 options can be added to all standard packages, except the trial package.		

**NOTE:** There are SiteManager Embedded Extended 5 and SiteManager Embedded Extended 10. You can set up five IP addresses with SiteManager Embedded Extended 5, and ten IP addresses with SiteManager Embedded Extended 10.

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# Chapter 2

## Basic Setup and Connection

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### What Is in This Chapter?

This chapter contains the following topics:

Topic	Page
Building Your Environment	20
Creating the SiteManager Environment	21
Creating the GateManager Environment	31
Creating the LinkManager Environment	37
Creating the LinkManager Mobile Environment	42

## Building Your Environment

On purchase of your Vijeo Connect license, build your environment using the following workflow:

Creating SiteManager Environment <sup>*1</sup>	Creating GateManager Environment <sup>*2</sup>	Creating LinkManager Environment <sup>*3</sup>	Creating LinkManager Mobile Environment <sup>*4</sup>
Set up the GateManager accessed from SiteManager <i>(see page 27)</i>	Authentication and Logging into GateManager <i>(see page 31)</i>	Authentication and Installing LinkManager. <i>(see page 37)</i>	Login and connect to LinkManager Mobile. <i>(see page 42)</i>
–	Create LinkManager user account <i>(see page 34)</i>	Connecting to display unit <i>(see page 40)</i>	–
–	Create LinkManager Mobile user account <i>(see page 34)</i>	–	–
–	Assigning the license to SiteManager . <i>(see page 36)</i>	–	–
<sup>*1</sup> tasks for SiteManager <b>User</b> or GateManager <b>Administrator</b> . <sup>*2</sup> tasks for GateManager <b>Administrator</b> . <sup>*3</sup> tasks for LinkManager <b>User</b> . <sup>*4</sup> tasks for LinkManager Mobile <b>User</b> .			

**NOTE:** When using Windows Embedded machines, you can set the write filter (write protection) on drives installed with the operating system. If the write filter settings are enabled, disable the write filter settings before installation. If you are using Windows Embedded Standard 7, and Windows Embedded Standard 2009, disable EWF Manager. For more details, refer to the User manual/Reference manual of your unit.

## Creating the SiteManager Environment

### Set Up the GateManager Accessed From SiteManager


**NOTE:** If the SiteManager Embedded is not pre-installed on your Industrial PC or HMI, first download and install the latest module from the site [Schneider Electric](#).


The setup method for SiteManager differs depending on your display unit.

Model	Setup method
HMIG3U HMIGTO1310 HMIGTO2310; HMIGTO2315 HMIGTO3510 HMIGTO4310 HMIGTO5310; HMIGTO5315 HMIGTO6310; HMIGTO6315	If Vijeo Designer runtime is on target, set up in offline mode. If Vijeo XD runtime is on target, set up in Hardware Configuration panel.
HMIG5U HMIG5U2 iPC	Set up in browser

### Set Up in Offline Mode

This procedure explains how to set up the SiteManager in offline mode from the display unit for the supported models.

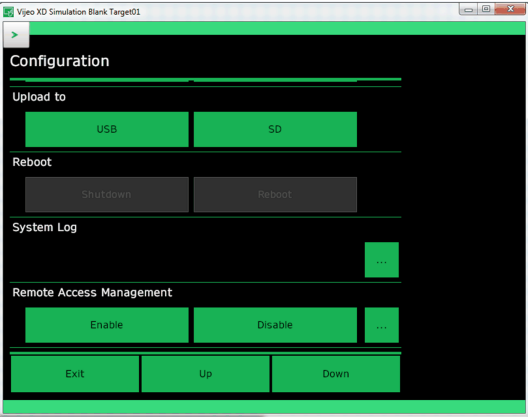
Step	Action
1	<p>Enter offline mode, click <b>Main Unit Settings</b> → <b>Remote Viewer Settings</b> and select SiteManager Embedded.</p> <p><b>NOTE:</b> When SiteManager Embedded is not available, use Vijeo Designer V6.2 SP5 or later to transfer a project file to the display unit.</p>
2	<p>Check that <b>Remote Management</b> is set to <b>Enabled</b>.</p>
3	<p>Enter the IP address of the GateManager to access the password (token) required for connection, and the SiteManager name.</p>  <p><b>Result:</b> The defined SiteManager name appears on the GateManager.</p>

Step	Action
	<p><b>NOTE:</b> The information required in this screen is available in the lower section of the e-mail you received from the GateManager with the GateManager X.509 Certificate.</p>  <p>The screenshot shows an email interface. At the top, it says 'GateManager X.509 Certificate for schneider-electric.gatemanager.dk' and 'SE-GMDK on'. Below that, it says 'Vijeo Connect GateManager A:' and 'Veillez répondre à Jens Sjelhøj'. The date is '05/07/2016 13:54' and there is a link 'Afficher détails'. A dropdown menu shows '1 pièce jointe' and a red box highlights the attachment 'Marion-SE-GMDK.gmc'.</p> <hr/> <p>Hello</p> <p>This mail contains a new X.509 certificate for the Schneider Electric GateManager administrator login. The password associated with the certificate is:</p> <p>Save the attached file, SE-GMDK.gmc, in your Windows "My Documents" folder.</p> <p>Follow this link to the GateManager administrator login screen: <a href="https://schneider-electric.gatemanager.dk/admin">https://schneider-electric.gatemanager.dk/admin</a> (or alternatively: <a href="https://193.242.155.139/admin">https://193.242.155.139/admin</a>).</p> <p>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.</p> <p>GateManager has been verified to work with Internet Explorer 9 (IE8 also works), Google Chrome, Apple Safari, and Mozilla Firefox. Please ensure that your browser is up-to-date and has JavaScript and TLS 1.0 enabled if you have problems connecting.</p> <p>----- Additional information -----</p> <p>The certificate in this mail is issued to user "Marion-SE-GMDK" in domain "ROOT" on server "schneider-electric.gatemanager.dk".</p> <p>Schneider Electric appliances, such as a SiteManager that should be administered by this account or by LinkManager users created by this account, should be configured with the following GateManager settings:</p> <p>GateManager Address: 193.242.155.139 Domain Token: ROOT</p> <p>For more information please check <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p>
4	If necessary, confirm the IP address of the proxy server with the network administrator, and enter it in the <b>Web-proxy Address</b> field.
5	Click <b>Apply Changes</b> . <b>NOTE:</b> You can use the <b>Status</b> property on the previous screen to check the connection status with GateManager.
6	To exit offline mode, click <b>Exit</b> .

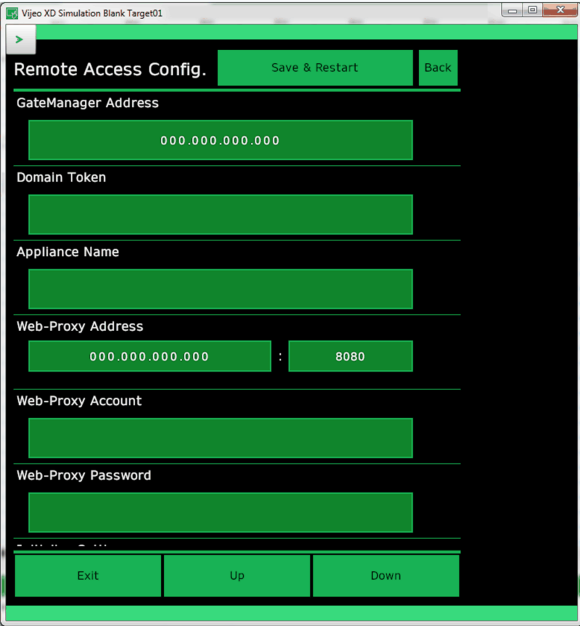
### Set up in Hardware Configuration

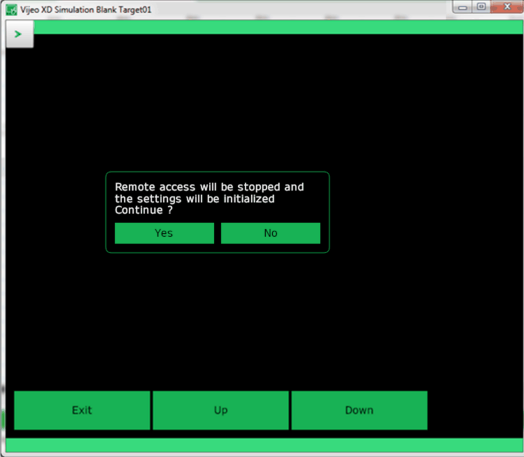
**NOTE:** Before setting up Hardware Configuration, enable **Vijeo Connect** setting in Vijeo XD. For information on entering Hardware Configuration and details of each set up item, refer to the **Vijeo XD User Manual**.

The following steps for models where SiteManager settings are defined in the **Hardware Configuration** of the display unit:

Step	Action
1	<p>In the <b>Hardware Configuration</b>, if the <b>Remote Access Management</b> menu does not display, transfer the settings of the display unit to a system with product version 2.4.0 or later.</p> 



Step	Action
2	<p>Enter the GateManager IP address, password (<b>Domain Token</b>) for connection, and SiteManager <b>Application Name</b>.</p>  <p><b>Result:</b> The defined SiteManager <b>Application Name</b> displays on the GateManager.</p>
3	<p>If necessary, confirm the proxy server IP address from your network administrator and enter it in the <b>Web-proxy Address</b> field.</p>
4	<p>Touch <b>Save &amp; Restart</b> to restart the system.</p>

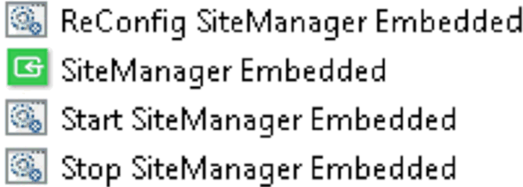
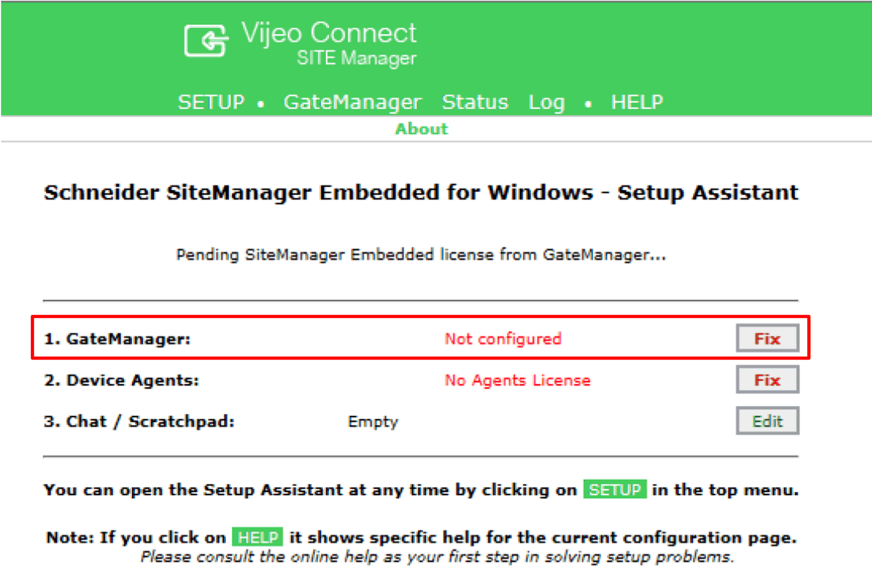
Step	Action
5	A pop-up screen appears for confirmation: 
6	In <b>Hardware Configuration</b> , from the <b>Remote access management</b> menu, touch <b>Enable</b> .

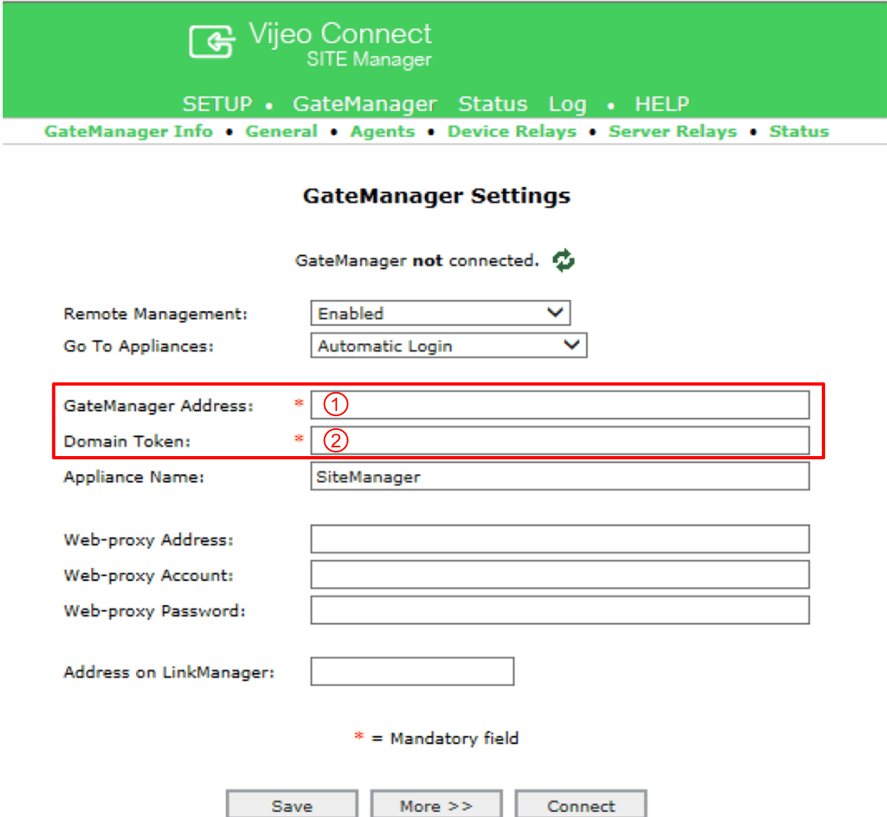

**NOTE:** When the display unit is restarted, from the **Remote access management** menu, touch **Enable** again.

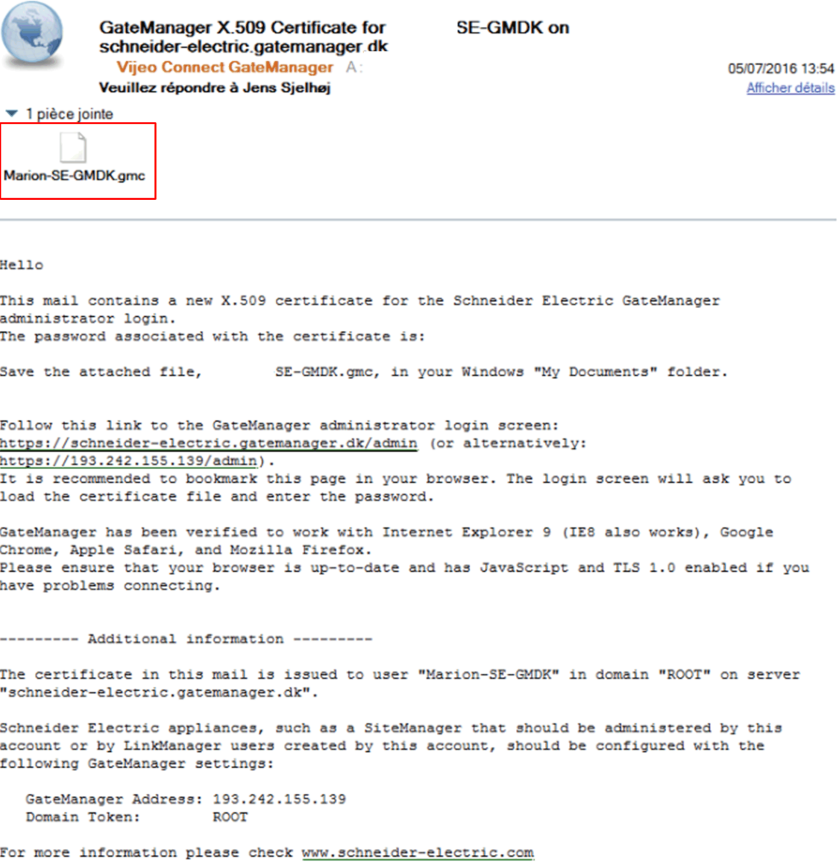

## Set Up in Browser



**NOTE:** If SiteManager Embedded is not pre-installed on your Industrial PC or HMI, first download and install the latest update module from the support site <http://www.schneider-electric.com/> (in service section of the target).

The following steps for models that support setting up SiteManager from a browser are as shown.

Step	Action									
1	<p>Turn off the write filter, click <b>All Programs</b> → <b>Schneider-Electric</b>, SiteManager Embedded, and <b>Start SiteManager Embedded</b> in <b>Start</b> menu (using <b>Run as administrator</b> instead of <b>Open</b>).</p>  <p><b>Result:</b> SiteManager Embedded is started.</p>									
2	<p>In the SiteManager Embedded website, from the <b>GateManager</b> setting, click the <b>Fix</b> button.</p>  <p><b>Schneider SiteManager Embedded for Windows - Setup Assistant</b></p> <p>Pending SiteManager Embedded license from GateManager...</p> <table border="1"> <tbody> <tr> <td>1. GateManager:</td> <td>Not configured</td> <td><b>Fix</b></td> </tr> <tr> <td>2. Device Agents:</td> <td>No Agents License</td> <td><b>Fix</b></td> </tr> <tr> <td>3. Chat / Scratchpad:</td> <td>Empty</td> <td><b>Edit</b></td> </tr> </tbody> </table> <p>You can open the Setup Assistant at any time by clicking on <b>SETUP</b> in the top menu.</p> <p><b>Note:</b> If you click on <b>HELP</b> it shows specific help for the current configuration page. Please consult the online help as your first step in solving setup problems.</p>	1. GateManager:	Not configured	<b>Fix</b>	2. Device Agents:	No Agents License	<b>Fix</b>	3. Chat / Scratchpad:	Empty	<b>Edit</b>
1. GateManager:	Not configured	<b>Fix</b>								
2. Device Agents:	No Agents License	<b>Fix</b>								
3. Chat / Scratchpad:	Empty	<b>Edit</b>								

Step	Action
3	<p>Enter the IP address of the GateManager to access the password (token) required for connection, and the SiteManager name. The defined SiteManager name appears on the GateManager.</p>  <p><b>GateManager Settings</b></p> <p>GateManager <b>not</b> connected. </p> <p>Remote Management: <input type="text" value="Enabled"/></p> <p>Go To Appliances: <input type="text" value="Automatic Login"/></p> <p>GateManager Address: * <input type="text" value="①"/></p> <p>Domain Token: * <input type="text" value="②"/></p> <p>Appliance Name: <input type="text" value="SiteManager"/></p> <p>Web-proxy Address: <input type="text"/></p> <p>Web-proxy Account: <input type="text"/></p> <p>Web-proxy Password: <input type="text"/></p> <p>Address on LinkManager: <input type="text"/></p> <p>* = Mandatory field</p> <p><input type="button" value="Save"/> <input type="button" value="More &gt;&gt;"/> <input type="button" value="Connect"/></p>


Step	Action
	<p><b>NOTE:</b> The information required in this screen is found in the lower section of the email you received from the GateManager with the GateManager X.509 Certificate.</p>  <p><b>NOTE:</b> The information required in this screen is found in the lower section of the email you received from the GateManager with the GateManager X.509 Certificate.</p> <p>GateManager X.509 Certificate for schneider-electric.gatemanager.dk SE-GMDK on  Vijeo Connect GateManager A: 05/07/2016 13:54  Veuillez répondre à Jens Sjelhøj <a href="#">Afficher détails</a></p> <p>▼ 1 pièce jointe</p> <p>Marion-SE-GMDK.gmc</p> <hr/> <p>Hello</p> <p>This mail contains a new X.509 certificate for the Schneider Electric GateManager administrator login.  The password associated with the certificate is:</p> <p>Save the attached file, SE-GMDK.gmc, in your Windows "My Documents" folder.</p> <p>Follow this link to the GateManager administrator login screen:  <a href="https://schneider-electric.gatemanager.dk/admin">https://schneider-electric.gatemanager.dk/admin</a> (or alternatively:  <a href="https://193.242.155.139/admin">https://193.242.155.139/admin</a>).</p> <p>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.</p> <p>GateManager has been verified to work with Internet Explorer 9 (IE8 also works), Google Chrome, Apple Safari, and Mozilla Firefox.  Please ensure that your browser is up-to-date and has JavaScript and TLS 1.0 enabled if you have problems connecting.</p> <p>----- Additional information -----</p> <p>The certificate in this mail is issued to user "Marion-SE-GMDK" in domain "ROOT" on server "schneider-electric.gatemanager.dk".</p> <p>Schneider Electric appliances, such as a SiteManager that should be administered by this account or by LinkManager users created by this account, should be configured with the following GateManager settings:</p> <p>GateManager Address: 193.242.155.139  Domain Token: ROOT</p> <p>For more information please check <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p>
4	If necessary, confirm the IP address of the proxy server with the network administrator, and enter it in the <b>Web-proxy Address</b> field.
5	Click <b>Save</b> and <b>Connect</b> .
6	<p>To check the connection status with GateManager, click the <b>Refresh</b> icon. </p> <p><b>NOTE:</b> The connection to the GateManager is possible if the GateManager Administrator has allowed access.</p>

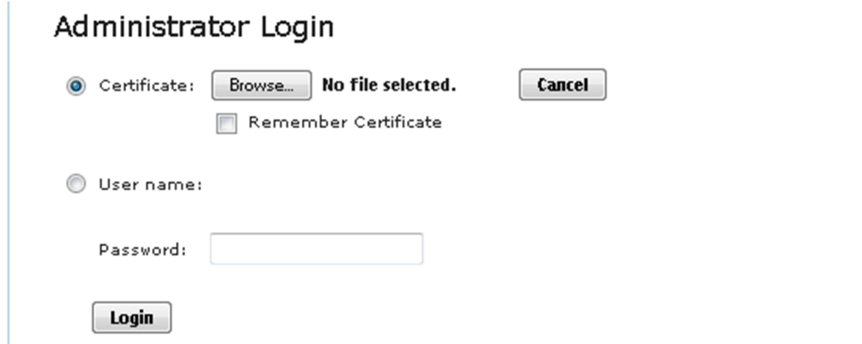
Step	Action
7	<p>After a short while, the status should change to this:</p> <hr/> <div style="border: 1px solid red; padding: 5px; display: inline-block;">                     GateManager connected: 10.0.0.100:8080 (LAN)  <b>Not Attached!</b>  </div> <p>Remote Management: <input type="text" value="Enabled"/></p> <p>Go To Appliances: <input type="text" value="Automatic Login"/></p> <hr/>
8	<p>SiteManager Embedded setup is completed now and the display unit is ready. Once the display unit is connected to a network that has Internet access, SiteManager Embedded will automatically connect to the GateManager.</p>

## Creating the GateManager Environment

Log in to GateManager to create LinkManager accounts and assign licenses to SiteManagers.

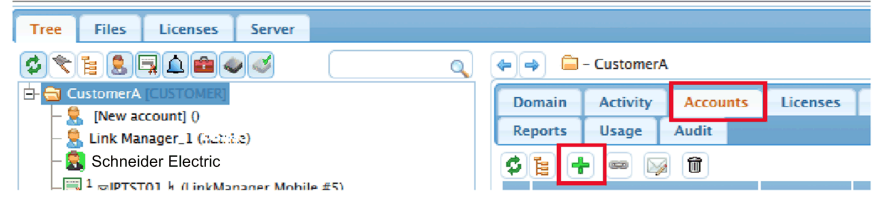
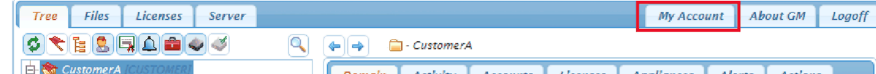
### Authentication and Logging Into GateManager

Step	Action
1	<p>Locate the email you received from the GateManager with the GateManager Certificate, and save the attached file to your hard disk.</p> <div data-bbox="326 500 1171 699">  </div> <p>▼ 1 pièce jointe</p> <p><b>Marion-SE-GMDK.gmc</b></p> <hr/> <p>Hello</p> <p>This mail contains a new X.509 certificate for the Schneider Electric GateManager administrator login. The password associated with the certificate is:</p> <p>Save the attached file, SE-GMDK.gmc, in your Windows "My Documents" folder.</p> <p>Follow this link to the GateManager administrator login screen: <a href="https://schneider-electric.gatemanager.dk/admin">https://schneider-electric.gatemanager.dk/admin</a> (or alternatively: <a href="https://193.242.155.139/admin">https://193.242.155.139/admin</a>).</p> <p>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.</p> <p>GateManager has been verified to work with Internet Explorer 9 (IE8 also works), Google Chrome, Apple Safari, and Mozilla Firefox. Please ensure that your browser is up-to-date and has JavaScript and TLS 1.0 enabled if you have problems connecting.</p> <p>----- Additional information -----</p> <p>The certificate in this mail is issued to user "Marion-SE-GMDK" in domain "ROOT" on server "schneider-electric.gatemanager.dk".</p> <p>Schneider Electric appliances, such as a SiteManager that should be administered by this account or by LinkManager users created by this account, should be configured with the following GateManager settings:</p> <p>GateManager Address: 193.242.155.139 Domain Token: ROOT</p> <p>For more information please check <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></p>

Step	Action
2	<p>Open the link in the same email. (There may be two links with a DNS name and IP address, respectively. You can use either of them). This opens the login screen of the GateManager:</p> 
3	Browse for the certificate you saved, and enter the password provided by the e-mail.

### Create LinkManager User Account

When LinkManager is a smart device, run set up using create LinkManager Mobile user account (see page 34).



Step	Action
1	<p>When logged in, click the <b>Accounts</b> tab, and select the <b>+</b> icon to create a new account.</p>  <p><b>NOTE:</b> In <b>My Account</b> → <b>Personal Account Settings</b>, when <b>Show startup Wizard on login</b> is enabled, logging into GateManager triggers the Startup wizard. Follow the instructions in the wizard to continue with the setup</p> 



Step	Action
2	<p>Enter the following information:</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Account Name: <input style="border: 2px solid red;" type="text" value="New account"/> ①</p> <p>Account Role: <input style="border: 2px solid red;" type="text" value="LinkManager User"/> ←</p> <p>Account Language: <input type="text" value="English"/></p> <p>Description:</p> <p>Group Members:</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>Person Name: <input style="border: 2px solid red;" type="text"/></p> <p>Email: <input style="border: 2px solid red;" type="text"/> ②</p> <p>Mobile:</p> <p>Person Info:</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>Disabled: <input type="checkbox"/> Auto-Disable: <input type="text" value="Never"/></p> <p>Last Login:</p> <p>Created: 2016-06-08</p> <p>Renewed:</p> <p>Expires:</p> <p>Authentications: <input type="text" value="X.509 Certificate (with password)"/></p> <p>Duration: <input type="text" value="Permanent"/></p> <p>Mail Template: <input type="text" value="Use default"/></p> <p>Message:</p> <p>Deliver to: <input type="checkbox"/> <input type="text" value="gsm@linkmanager.com"/></p> <p>GM Address:</p> <p>Zip Format: <input type="checkbox"/></p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>New password: <input style="border: 2px solid red;" type="text"/></p> <p>Repeat: <input style="border: 2px solid red;" type="text"/> ③</p> <p>Auto password: <input type="checkbox"/></p> <p><input style="border: 2px solid red;" type="button" value="Save"/> <input type="button" value="Cancel"/></p> </div>
	<p><b>1 Account Name:</b> This becomes the file name of the LinkManager certificate file (.lmc).</p> <p><b>2 Person Name, Email:</b> Enter the name and email address for whom the account is being created.</p> <p><b>3 New password/Auto password:</b> Password is provided to the person associated with the account. For administrator and LinkManager accounts: 12 character alphanumeric password with at least one number, one lowercase character, and one uppercase character. For LinkManager Mobile accounts: 10 character password with lowercase letters followed by digits. You can create your own password with the <b>New password</b> command. Send the password by e-mail or notify verbally. <b>Auto password</b> creates a random password. Password is sent automatically from GateManager by e-mail.</p> <p><b>4 Save:</b> On clicking <b>Save</b>, an e-mail with the LinkManager certificate is automatically sent from the GateManager.</p>

### Creating LinkManager Mobile User Account

The step to create this account is identical to creating the LinkManager account.

Step	Action
1	<p>Log into the GateManager portal, click <b>Accounts</b>, select the <b>+</b> icon to create a new account.</p>  <p>The screenshot shows the GateManager portal interface. On the left, a tree view shows a folder for 'CustomerA' containing several accounts: '[New account] 0', 'Link Manager_1 (GateM...)', 'Pro-face (M...)', and 'IPTST01 k (LinkManager Mobile #5)'. On the right, a navigation menu has tabs for 'Domain', 'Activity', 'Accounts', and 'Licenses'. The 'Accounts' tab is highlighted with a red box. Below the navigation menu, a toolbar contains several icons, with a green plus sign icon also highlighted with a red box.</p> <p><b>NOTE:</b> In <b>My Account</b> → <b>Personal Account Settings</b>, when <b>Show startup Wizard on login</b> is enabled, logging into GateManager triggers the Startup wizard. Follow the instructions in the wizard to continue with the setup</p>  <p>The second screenshot shows the 'My Account' settings page. The top navigation bar includes 'Tree', 'Files', 'Licenses', and 'Server'. On the right side of the page, there are links for 'My Account', 'About GM', and 'Logoff'. The 'My Account' link is highlighted with a red box.</p>

Step	Action
2	<p>Enter the following details:</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Account Name: <input type="text" value="[New account]"/> ①</p> <p>Account Role: <input type="text" value="LinkManager Mobile"/> ② Assign license: <input checked="" type="checkbox"/> ②</p> <p>Account Language: <input type="text" value="English"/></p> <p>Description: <input type="text"/></p> <p>Group Member: <input type="text"/></p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Person Name: <input type="text"/> ③</p> <p>Email: <input type="text"/> ③</p> <p>Mobile: <input type="text"/></p> <p>Person Info: <input type="text"/></p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>Disabled: <input type="checkbox"/> Auto-Disable: <input type="text" value="Never"/></p> <p>Last Login:</p> <p>Created: 2016-03-24</p> <p>Renewed:</p> <p>Expires:</p> <p>Authentication: <input type="text" value="Username and Password"/> ④</p> <p>Duration: <input type="text" value="Permanent"/></p> <p>Mail Template: <input type="text" value="Use default"/></p> <p>Message: <input type="text"/></p> <p>Deliver to: <input type="checkbox"/> <input type="text" value="person@regress@solihull.southgulf.co.uk"/></p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>New password: <input type="text"/> ⑤</p> <p>Repeat: <input type="text"/> ⑤</p> <p>Auto password: <input checked="" type="checkbox"/> ⑤</p> <p><input type="button" value="Save"/> <input type="button" value="Cancel"/></p> </div> <p><b>1 Account Name:</b> This becomes the login ID for the account.</p> <p><b>2 Account Role:</b> The check box <b>Assign License</b> appears when selecting this role. When checking this box, this account allocates the free LinkManager Mobile license and then allow remote access through this account (if the option is not selected, the account will still be working, but remote access is blocked).</p> <p><b>3 Person Name and Email:</b> Enter the name and email address of the person for this account.</p>

Step	Action
	<p><b>4 Authentication:</b> The Authentication is done by Username and Password.</p> <p><b>5 New password/Auto password:</b> Password is provided to the person associated with the account. For administrator and LinkManager accounts: 12 character alphanumeric Password with at least one number, one lowercase character, and one uppercase character. For LinkManager Mobile accounts: 10 character password with lowercase letters followed by digits. You can create your own password with the <b>New password</b> command. Send the password by e-mail or notify verbally. <b>Auto password</b> creates a random password. Password is sent automatically from GateManager by e-mail.</p> <p><b>6 Save:</b> On clicking <b>Save</b>, an email with a link to the LinkManager Mobile login page is automatically sent from the GateManager.</p>

### Assigning the License To SiteManager


On the registered SiteManager, an assigned license is required to use Vijeo Connect.



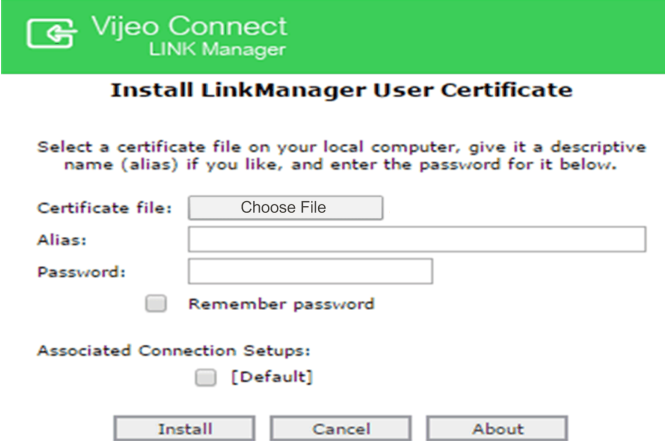
Step	Action
1	<p>If the SiteManager has been configured correctly according to section Setup the GateManager accessed from SiteManager (see page 21), the SiteManager appears in the tree view. Place your cursor on it and click <b>Bind license and attach here</b>.</p> <p><b>NOTE:</b> When the SiteManager that you want to assign the license does not appear in tree view, check if the SiteManager's Web-proxy address is set up. For more information about possible reason for SiteManager not appearing in GateManager web interface, see Vijeo Connect - Troubleshooting Guide For SiteManager (see Vijeo Connect, Troubleshooting Guide, For SiteManager).</p>

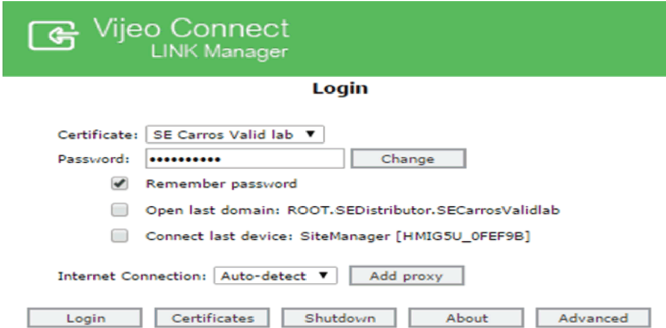
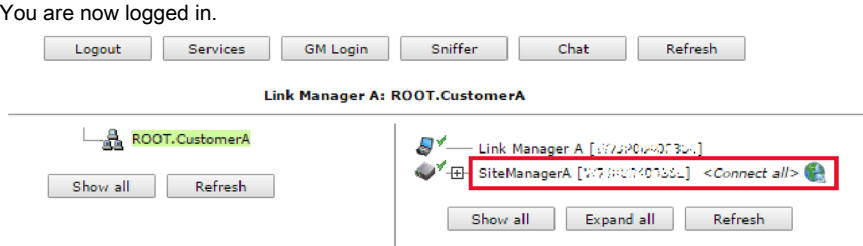
## Creating the LinkManager Environment

Setting up personal computers and smart devices in the office you want to connect to the network.

### Authentication and Installing LinkManager

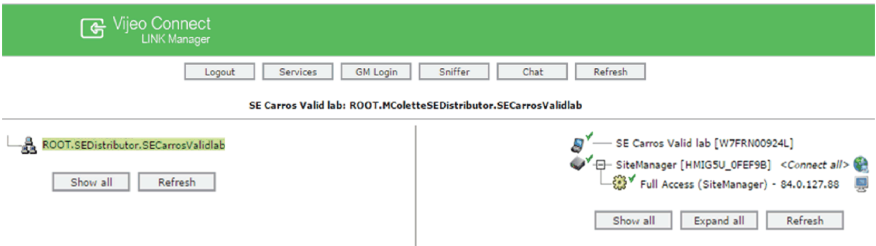
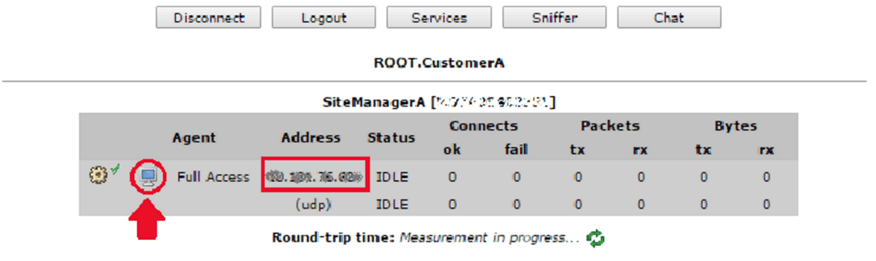
Step	Action
1	<p>The previous step generated an email from the GateManager that included a LinkManager certificate (.lmc). Save the attached certificate to your computer.</p>  <p><b>LinkManager X.509 Certificate for SE Carros Valid lab on schneider-electric.gatemanager.dk</b> 1 m</p> <p>Expéditeur: Vijeo Connect GateManager 5 Juillet 2016 16      À: SE Carros Valid lab      Répondre à: SE Carros Valid lab</p> <p>SE_Carros_Valid_lab.lmc (3,3 ko) <a href="#">Télécharger</a>   <a href="#">Porte-documents</a>   <a href="#">Supprimer</a></p> <p>Hello SE Carros Valid lab</p> <p>This mail contains your X.509 user certificate for the Schneider Electric LinkManager. Use the same password you used for entering the GateManager Portal.</p> <p>You must save the attached file, SE_Carros_Valid_lab.lmc, to your local hard drive (or other suitable storage) before you can import it into the LinkManager.</p> <p>Installing a new LinkManager      -----</p> <p>First you need to download and install the latest LinkManager software for your Windows system:</p> <p><a href="http://ftp.gatemanager.dk/schneider/linkmanager.html">http://ftp.gatemanager.dk/schneider/linkmanager.html</a></p> <p>When the installation completes, you will be asked to install the user certificate, after which you can proceed to Login.</p> <p>Installing a LinkManager User certificate      -----</p>

Step	Action
2	<p>Download and install the LinkManager software by clicking the appropriate link in the email.</p> <p><b>NOTE:</b> Administrator privileges on the PC are required to install LinkManager.</p> <p><b>NOTE:</b> You can also install LinkManager inside a VMWare virtual machine if the host operating system is Windows 7 and the CPU supports virtualization. You can also run your programming software inside a virtual machine and connect to devices through LinkManager installed on the host operating system if the virtual machine is configured for NAT.</p>
3	<p>After you click <b>Finish</b> in the installation wizard, the LinkManager icon  in your Windows notification area turns green, and your default web browser opens, showing the LinkManager Web GUI.</p> <p><b>NOTE:</b> If the LinkManager icon remains red  for a long time, it could indicate that something on the PC is preventing the LinkManager from starting correctly. Visit the website whenever you need help finding a solution: <a href="#">HMI (Terminals and Industrial PC)</a>.</p>
4	<p>Browse for the certificate you saved and enter the password provided in the e-mail.</p> 

Step	Action
5	<p>When clicking <b>Install</b>, you are prompted to log in. Repeat the password from above, and click <b>Login</b>.</p> <p><b>NOTE:</b> When you cannot log in, confirm the IP address of the proxy server with the network administrator, and use <b>Add proxy</b> to set up the <b>Web-Proxy</b>.</p>  <p>You are now logged in.</p> 

### Connecting to the Display Unit

**NOTE:** When you connect multiple LinkManager to one SiteManager (Agent) at the same time, depending on the application, there may be cases where some of the LinkManagers cannot communicate with the SiteManager. You can avoid this by doing the following action in the related Agent defined in the Web GUI of the SiteManager (accessible from GateManager Web GUI, select registered HMI in left panel, click on button **SiteManager GUI** in right panel). In **Parameter Details** of that Agent, and in the **Custom settings** field, add **-X** in order to enable **Exclusive access** option.

Step	Action																								
1	<p>Click <b>SiteManager &lt;Connect All&gt;</b>.</p> 																								
2	<p>You are now connected to the IP address of the display unit.</p> <p><b>NOTE:</b> An Agent defined in the SiteManager is only active when it is connected. Before this step, the Agent was not active and no data is transferred to SiteManager by an inactive Agent.</p>  <table border="1"> <thead> <tr> <th rowspan="2">Agent</th> <th rowspan="2">Address</th> <th rowspan="2">Status</th> <th colspan="2">Connects</th> <th colspan="2">Packets</th> <th colspan="2">Bytes</th> </tr> <tr> <th>ok</th> <th>fail</th> <th>tx</th> <th>rx</th> <th>tx</th> <th>rx</th> </tr> </thead> <tbody> <tr> <td>Full Access</td> <td>84.0.127.88 (udp)</td> <td>IDLE</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Round-trip time: Measurement in progress...</p>	Agent	Address	Status	Connects		Packets		Bytes		ok	fail	tx	rx	tx	rx	Full Access	84.0.127.88 (udp)	IDLE	0	0	0	0	0	0
Agent	Address				Status	Connects		Packets		Bytes															
		ok	fail	tx		rx	tx	rx																	
Full Access	84.0.127.88 (udp)	IDLE	0	0	0	0	0	0																	



Step	Action																																				
3	<p>You can connect to the application running on the display unit.</p> <p><b>NOTE:</b> LinkManager data counters reflect the transferred data.</p> <div style="text-align: center;"> <span>Disconnect</span> <span>Logout</span> <span>Services</span> <span>Sniffer</span> <span>Chat</span> </div> <p style="text-align: center;"><b>ROOT.CustomerA</b></p> <hr/> <p style="text-align: center;"><b>SiteManagerA [10.10.10.10]</b></p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Agent</th> <th rowspan="2">Address</th> <th rowspan="2">Status</th> <th colspan="2">Connects</th> <th colspan="2">Packets</th> <th colspan="2">Bytes</th> </tr> <tr> <th>ok</th> <th>fail</th> <th>tx</th> <th>rx</th> <th>tx</th> <th>rx</th> </tr> </thead> <tbody> <tr> <td></td> <td> Full Access</td> <td>10.10.10.10</td> <td>IDLE</td> <td>10</td> <td>3</td> <td>56</td> <td>60</td> <td>770</td> <td>3,564</td> </tr> <tr> <td></td> <td></td> <td>(udp)</td> <td>IDLE</td> <td>0</td> <td>0</td> <td>254</td> <td>393</td> <td>53,904</td> <td>28,295</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Round-trip time:</b> <i>Measurement in progress...</i> </p>		Agent	Address	Status	Connects		Packets		Bytes		ok	fail	tx	rx	tx	rx		Full Access	10.10.10.10	IDLE	10	3	56	60	770	3,564			(udp)	IDLE	0	0	254	393	53,904	28,295
	Agent					Address	Status	Connects		Packets		Bytes																									
		ok	fail	tx	rx			tx	rx																												
	Full Access	10.10.10.10	IDLE	10	3	56	60	770	3,564																												
		(udp)	IDLE	0	0	254	393	53,904	28,295																												

## Creating the LinkManager Mobile Environment

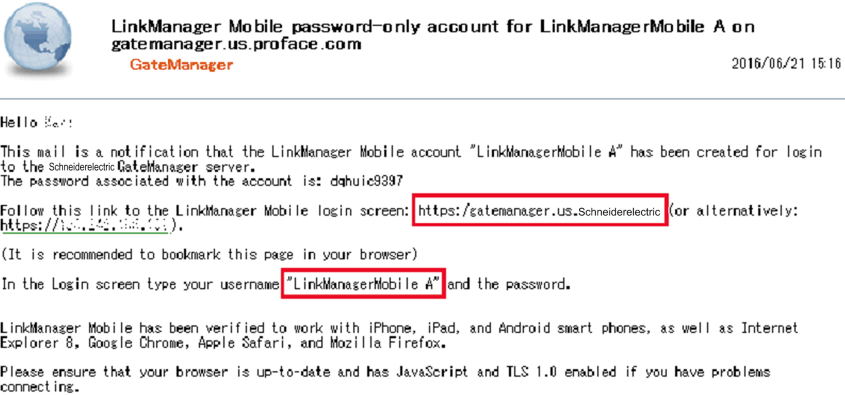
LinkManager Mobile is a light-weight version of LinkManager that can be used from most devices with a web browser, such as PCs, smartphones, and tablets.

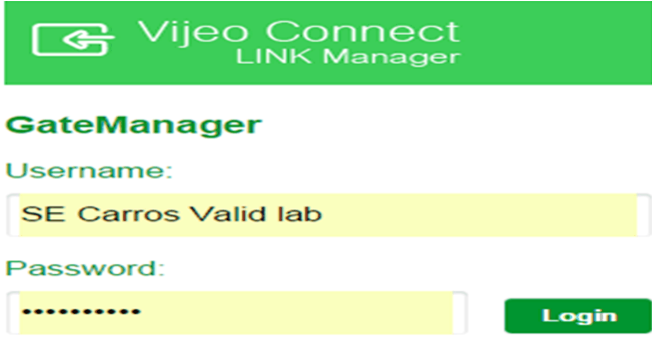
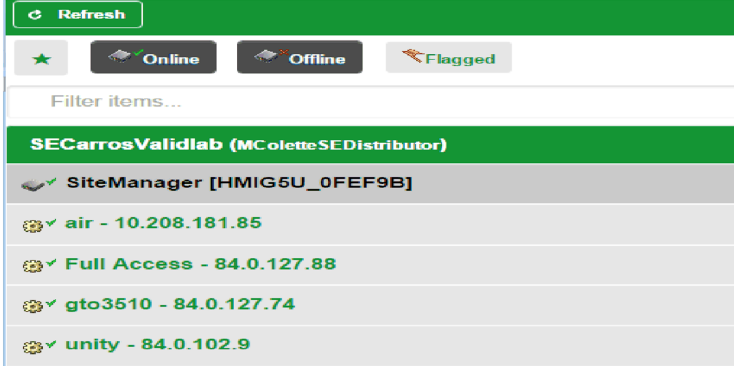
With LinkManager mobile, you can connect to the following services on a device:

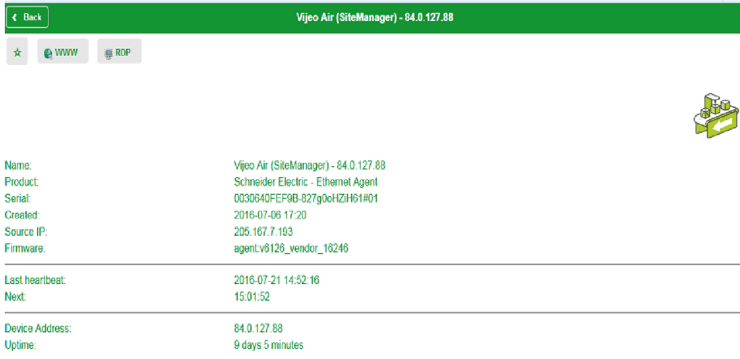

- Web GUI (http/https)
- RDP (Microsoft Remote Desktop) on port 3389
- VNC servers on port 5900
- Selected APP access mapped through port 5900

**NOTE:** RDP and VNC connections are still under development. If RDP or VNC is used in any examples, replace with a supported connection type.

## Logging in and Connecting To LinkManager Mobile

Step	Action
1	<p>You have received an email with a link to the LinkManager Mobile login screen. You can activate the link from most platforms with a suitable web browser supporting https and java script.</p>  <p>The screenshot shows an email header with a globe icon, the text "LinkManager Mobile password-only account for LinkManagerMobile A on gatemanager.us.proface.com", the "GateManager" logo, and the date "2016/06/21 15:16". The body of the email starts with "Hello Bert:", followed by a notification that the account "LinkManagerMobile A" has been created for login to the "SchneiderElectric GateManager server" with password "dahuic9397". It provides a link to the login screen: "https://gatemanager.us.SchneiderElectric" (highlighted in red) or alternatively "https://192.242.206.101". A note says "(It is recommended to bookmark this page in your browser)". It instructs to type the username "LinkManagerMobile A" (highlighted in red) and the password in the login screen. At the bottom, it lists supported devices (iPhone, iPad, Android) and browsers (Internet Explorer 8, Google Chrome, Apple Safari, Mozilla Firefox), and asks to ensure the browser is up-to-date with JavaScript and TLS 1.0 enabled.</p>

Step	Action
2	<p>Log in with the user name from the email. The password is provided in email.</p> 
3	<p>Click the <b>ROOT</b> bar to display the list of devices and select <b>Full Access</b>.</p> 

Step	Action																				
4	<p>Now, click <b>RDP</b> button.</p>  <table border="1" data-bbox="281 389 1022 495"> <tr> <td>Name:</td> <td>Vijeo Air (SiteManager) - 84.0.127.88</td> </tr> <tr> <td>Product:</td> <td>Schneider Electric - Ethernet Agent</td> </tr> <tr> <td>Serial:</td> <td>0030640FE9B-827g0cHZH61#01</td> </tr> <tr> <td>Created:</td> <td>2016-07-06 17:20</td> </tr> <tr> <td>Source IP:</td> <td>206.167.7.163</td> </tr> <tr> <td>Firmware:</td> <td>agent.v8126_vendor_18246</td> </tr> </table> <hr/> <table border="1" data-bbox="281 503 1022 544"> <tr> <td>Last heartbeat:</td> <td>2016-07-21 14:52:16</td> </tr> <tr> <td>Next:</td> <td>15:01:52</td> </tr> </table> <hr/> <table border="1" data-bbox="281 552 1022 592"> <tr> <td>Device Address:</td> <td>84.0.127.88</td> </tr> <tr> <td>Uptime:</td> <td>9 days 5 minutes</td> </tr> </table> <p><b>Result:</b> You are now connected to the display unit with the <b>RDP</b> protocol:</p>  <p><b>GateManager</b></p> <p><b>Start Remote Desktop App</b></p> <p>Connect to this address (RDP):</p> <p><b>schneider-electric.gatemanager.dk</b></p> <p><b>CLOSE</b></p>	Name:	Vijeo Air (SiteManager) - 84.0.127.88	Product:	Schneider Electric - Ethernet Agent	Serial:	0030640FE9B-827g0cHZH61#01	Created:	2016-07-06 17:20	Source IP:	206.167.7.163	Firmware:	agent.v8126_vendor_18246	Last heartbeat:	2016-07-21 14:52:16	Next:	15:01:52	Device Address:	84.0.127.88	Uptime:	9 days 5 minutes
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Last heartbeat:	2016-07-21 14:52:16																				
Next:	15:01:52																				
Device Address:	84.0.127.88																				
Uptime:	9 days 5 minutes																				

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# Chapter 3

## SiteManager Embedded Basic - Adjusting Agents

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### Overview

This section describes how to extend SiteManager Embedded Basic to allow access to select the services on the Windows computer.

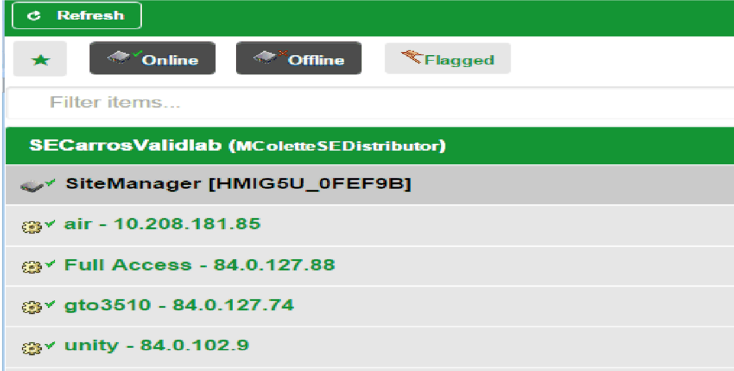
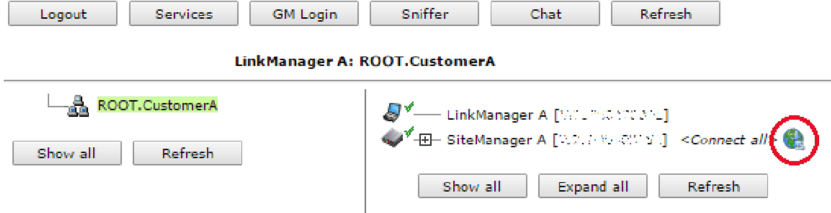
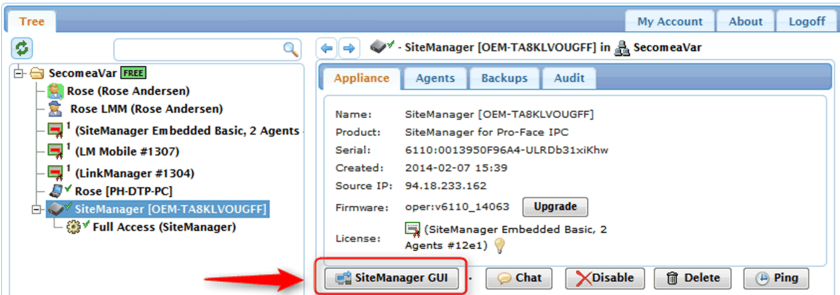
In addition to the default `Full Access` agent on SiteManager Embedded, you can create agents that allow access to specific services on the computer. You can use this to limit remote access to the computer, or to enable connection buttons on LinkManager or LinkManager Mobile for accessing selected services.

### What Is in This Chapter?

This chapter contains the following topics:

Topic	Page
Configure Device Agents From SiteManager	46
Enable Standard Connect Buttons for Agents	48
Using Agents with Custom LinkManager Mobile Connect Buttons	51

## Configure Device Agents From SiteManager

Step	Action
1	<p>Connect to the Web GUI of SiteManager Embedded, from LinkManager Mobile, LinkManager or from the GateManager Portal:</p> <ol style="list-style-type: none"> <li>From LinkManager Mobile, select SiteManager and click <b>WWW</b>.</li> </ol>  <ol style="list-style-type: none"> <li>Or from LinkManager, select the globe icon next to SiteManager Embedded.</li> </ol>  <ol style="list-style-type: none"> <li>Or from the GateManager portal, click the <b>SiteManager GUI</b> button.</li> </ol> 

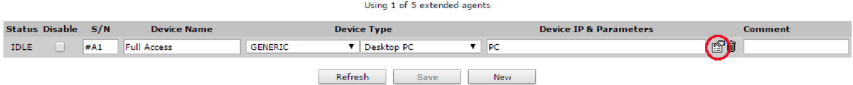
Step	Action												
2	<p>When connected, the first screen is the <b>Setup Assistant</b>. From <b>Device Agents</b>, click the <b>Edit</b> button.</p> <p style="text-align: center;"><b>Schneider SiteManager Embedded for Windows - Setup Assistant</b></p> <p style="text-align: center;"><b>Warning: Write filter (EWF) enabled. Your changes will not be stored on persistent disk.</b></p> <hr/> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>1. GateManager:</b></td> <td style="width: 30%;">193.242.155.139</td> <td style="width: 30%;">Connected to 205.167.7.126:443 (LAN)</td> <td style="width: 10%; text-align: right;"><input type="button" value="Edit"/></td> </tr> <tr> <td><b>2. Device Agents:</b></td> <td>1 up</td> <td>1 failed</td> <td style="text-align: right;"><input type="button" value="Fix"/></td> </tr> <tr> <td><b>3. Chat / Scratchpad:</b></td> <td colspan="2">Empty</td> <td style="text-align: right;"><input type="button" value="Edit"/></td> </tr> </table> <hr/> <p>You can open the Setup Assistant at any time by clicking on <b>SETUP</b> in the top menu.</p> <p><b>Note:</b> If you click on <b>HELP</b> it shows specific help for the current configuration page.  <i>Please consult the online help as your first step in solving setup problems.</i></p> <p><b>NOTE:</b> The connection is made as a proxy connection through the GateManager over a random port number.</p>	<b>1. GateManager:</b>	193.242.155.139	Connected to 205.167.7.126:443 (LAN)	<input type="button" value="Edit"/>	<b>2. Device Agents:</b>	1 up	1 failed	<input type="button" value="Fix"/>	<b>3. Chat / Scratchpad:</b>	Empty		<input type="button" value="Edit"/>
<b>1. GateManager:</b>	193.242.155.139	Connected to 205.167.7.126:443 (LAN)	<input type="button" value="Edit"/>										
<b>2. Device Agents:</b>	1 up	1 failed	<input type="button" value="Fix"/>										
<b>3. Chat / Scratchpad:</b>	Empty		<input type="button" value="Edit"/>										

## Enable Standard Connect Buttons for Agents

For a SiteManager Agent, you can enable buttons for **WWW**, **VNC**, and **RDP** access that appear in LinkManager and LinkManager Mobile for connecting to the device.

These buttons are not enabled by default as the corresponding service (listen socket), may not be available for the device represented by the Agent.

### Example: Enable VNC Button for the Full Access Agent

Step	Action														
1	<p>Click the <b>Parameter Details</b> icon in the Full Access agent.</p>  <p style="text-align: center; font-size: small;">Using 1 of 5 extended agents</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Status</th> <th style="width: 5%;">Disable</th> <th style="width: 5%;">S/N</th> <th style="width: 20%;">Device Name</th> <th style="width: 10%;">Device Type</th> <th style="width: 30%;">Device IP &amp; Parameters</th> <th style="width: 20%;">Comment</th> </tr> </thead> <tbody> <tr> <td>IDLE</td> <td><input type="checkbox"/></td> <td>#A1</td> <td>Full Access</td> <td>GENERIC</td> <td>Desktop PC</td> <td>PC</td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="Refresh"/> <input type="button" value="Save"/> <input type="button" value="New"/> </p>	Status	Disable	S/N	Device Name	Device Type	Device IP & Parameters	Comment	IDLE	<input type="checkbox"/>	#A1	Full Access	GENERIC	Desktop PC	PC
Status	Disable	S/N	Device Name	Device Type	Device IP & Parameters	Comment									
IDLE	<input type="checkbox"/>	#A1	Full Access	GENERIC	Desktop PC	PC									



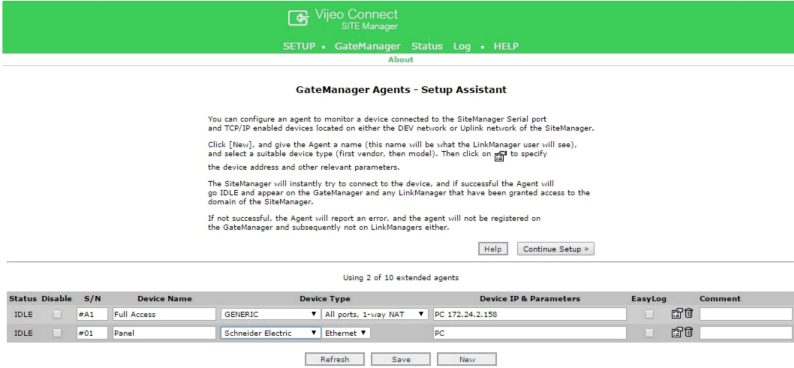


Step	Action
2	<p>Select the <b>Enable VNC</b> service check box; then click <b>Save</b> and then <b>Back</b>.</p> <div style="border: 1px solid gray; padding: 10px;"><p style="text-align: center;"><b>"Full Access" - GENERIC Windows PC Agent - Setup Assistant</b></p><p>When you configure an agent to monitor a TCP/IP enabled devices located on either the DEV network or Uplink network of the SiteManager, you must specify the device IP address below.</p><p>Click [Save] and then [Back] to make the SiteManager instantly try to connect to the device.</p><p>If not successful, the Agent will report an error, and the agent will not be registered on the GateManager and subsequently not on LinkManagers either.</p><p style="text-align: right;"><a href="#">Help</a>   <a href="#">Continue Setup »</a></p><hr/><p>Device Address: * <input type="text" value="PC"/></p><p>Address on LinkManager: <input type="text" value="172.24.2.158"/></p><p>Address on GateManager: <input type="text"/></p><p>Extra TCP ports: <input type="text"/></p><p>Extra UDP ports: <input type="text"/></p><p>Extra GTA Service: <input type="text"/></p><p>RDP Login: <input type="text"/></p><p>RDP Password: <input type="password"/></p><p>Enable UDP Broadcast: <input type="checkbox"/></p><p>Enable RDP service: <input checked="" type="checkbox"/> <input type="checkbox"/> LinkManager Only</p><p>Enable WWW service: <input type="checkbox"/> <input type="checkbox"/> LinkManager Only</p><p>Enable VNC service: <input checked="" type="checkbox"/> <input type="checkbox"/> LinkManager Only</p><p>Custom Settings: <input type="text"/></p><p style="text-align: center;"><input type="button" value="Save"/>   <input type="button" value="Back"/></p><p style="text-align: center;">* = Mandatory field</p></div>

## Connect to VNC Server With LinkManager Mobile


Step	Action
1	<p>In LinkManager Mobile, connect to the <b>Full Access</b> agent.</p>  <p><b>Result:</b> You can see the <b>VNC</b> button.</p>  <p><b>NOTE:</b> The <b>VNC</b> button is displayed only if the agent can detect that the <b>VNC</b> server is started.</p>
2	Touch the VNC button and the LinkManager Mobile creates a connection to the device.
3	Connect to the VNC Client within 60 seconds. Otherwise, the connection is closed and again you need to repeat the above procedure.

## Using Agents with Custom LinkManager Mobile Connect Buttons

### Create a New Agent

Step	Action
1	<p>Click <b>New</b>.</p> 
2	<p>Enter the information.</p>  <ol style="list-style-type: none"> <li><b>1 Device Name:</b> Type a meaningful name that describes the agent when logged into LinkManager or LinkManager Mobile.</li> <li><b>2 Device Type:</b> Select the Schneider Electric agent from the scroll bar. In case of SiteManager Embedded, the only connection type is Ethernet.</li> <li><b>3 Device IP &amp; Parameters:</b> Enter the IP address of the device. The IP address must be accessible from the computer where SiteManager Embedded is installed.</li> </ol> <p><b>NOTE:</b> Other options could have been Generic / Web access, which would have limited access to a Web server on the computer.</p>
3	<p>Select <b>Save</b> and observe that the status of the agent changes to Idle.</p> 
4	<p>Close the SiteManager Web GUI window now.</p>

### Connect to the Agent With LinkManager Mobile

Step	Action
1	<p>In the LinkManager Mobile view, you discover the new Vendor agent.</p>  <p>The screenshot shows a mobile application interface with a green header bar containing a 'Refresh' button. Below the header are three status buttons: 'Online' (with a green checkmark), 'Offline' (with a grey checkmark), and 'Flagged' (with a red flag). A search bar labeled 'Filter items...' is present. The main content area displays a list of agents:         <ul style="list-style-type: none"> <li><b>SECarrosValidlab (MColeteSEDistributor)</b> (highlighted in green)</li> <li>SiteManager [HMIG5U_0FEF9B]</li> <li>air - 10.208.181.85</li> <li>Full Access - 84.0.127.88</li> <li>gto3510 - 84.0.127.74</li> <li>unity - 84.0.102.9</li> </ul> </p>
2	<p>If you select the agent, you see the button specific for the Schneider Electric agent. Clicking the button establishes a connection to port 5900 on the GateManager, which is mapped to the Vijeo Designer port (10000) on the Schneider Electric panel.</p> <p><b>NOTE:</b> Within 60 seconds, you should connect with the application, otherwise; the connection is closed again, and you need to repeat the above procedure.</p>

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# Chapter 4

## SiteManager Embedded Extended - Accessing External Devices

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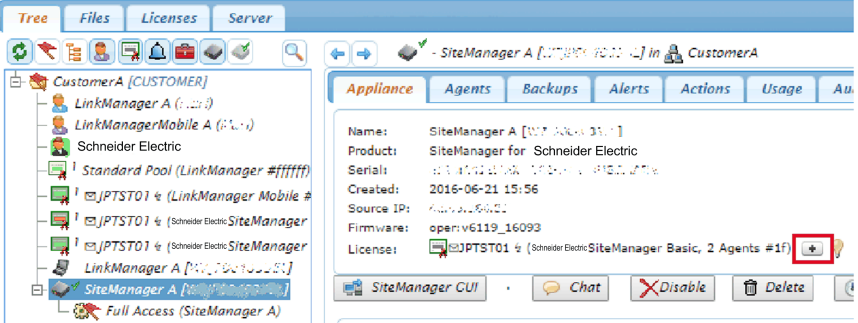
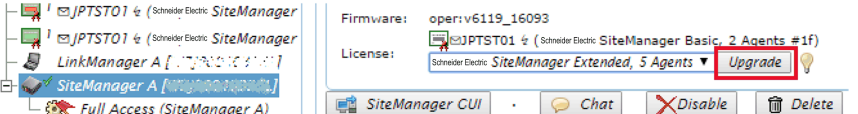
### What Is in This Chapter?

This chapter contains the following topics:

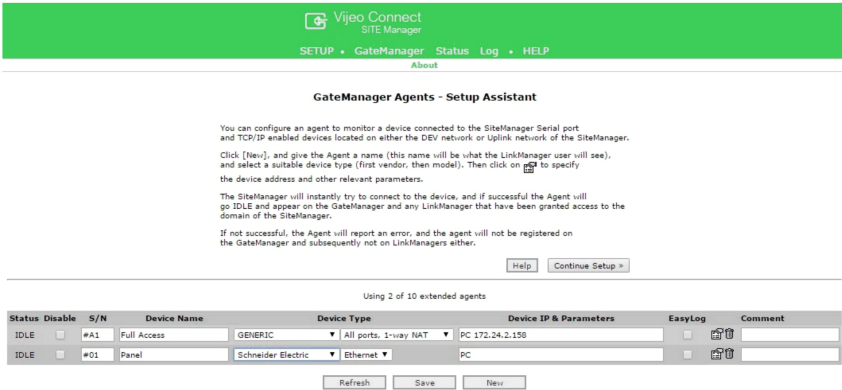
Topic	Page
Upgrading SiteManager Embedded Basic To SiteManager Embedded Extended	54
Define Device Agent for External Device	55

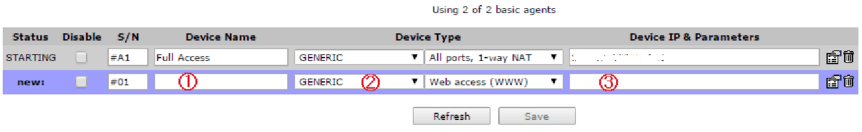

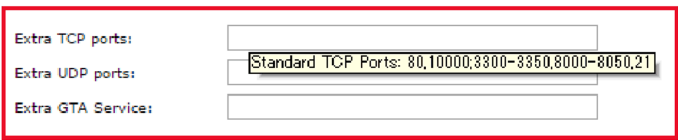
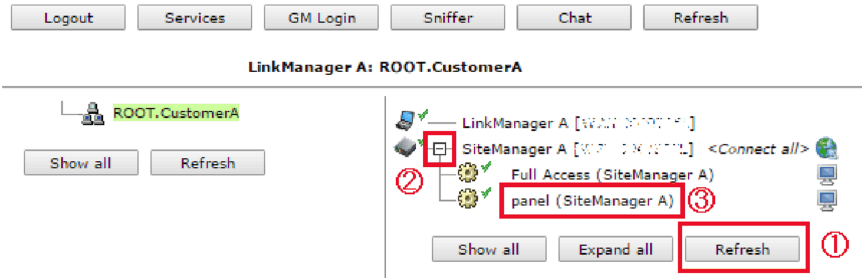
## Upgrading SiteManager Embedded Basic To SiteManager Embedded Extended

**NOTE:** This section assumes that you have SiteManager Embedded with a Basic license, and have received a SiteManager Embedded Extended license. If you already upgraded the license from SiteManager Embedded to SiteManager Embedded Extended, you can proceed to Define device agent for external device (*see page 55*).


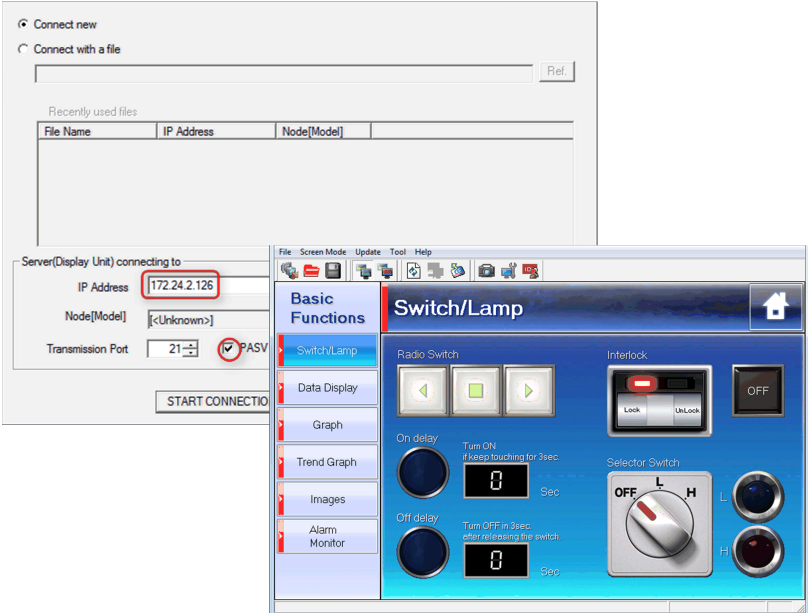
Step	Action
1	<p>Locate the SiteManager in the GateManager Portal, and click the + sign to upgrade the license.</p>  <p>The screenshot shows the GateManager Portal interface. On the left, a tree view shows the hierarchy: CustomerA [CUSTOMER] &gt; LinkManager A (...) &gt; Schneider Electric &gt; JPTST01 &amp; (Schneider Electric SiteManager) &gt; SiteManager A [10.10.10.10]. The main panel shows the configuration for SiteManager A. The 'Licenses' tab is selected, and a dropdown menu is open next to the current license, showing an 'Upgrade' option highlighted with a red box.</p>
2	<p>Available licenses are listed. Click <b>Upgrade</b> to bind the license.</p>  <p>The screenshot shows the GateManager Portal interface. On the left, a tree view shows the hierarchy: CustomerA [CUSTOMER] &gt; LinkManager A (...) &gt; Schneider Electric &gt; JPTST01 &amp; (Schneider Electric SiteManager) &gt; SiteManager A [10.10.10.10]. The main panel shows the configuration for SiteManager A. The 'Licenses' tab is selected, and the 'Upgrade' button is highlighted with a red box.</p>

## Define Device Agent for External Device

Step	Action																										
1	<p>Connect to the SiteManager GUI, and from <b>Device Agents</b> click <b>Edit</b>.</p>  <p>Using 2 of 10 extended agents</p> <table border="1"> <thead> <tr> <th>Status</th> <th>Disable</th> <th>S/N</th> <th>Device Name</th> <th>Device Type</th> <th>Device IP &amp; Parameters</th> <th>EasyLog</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>IDLE</td> <td><input type="checkbox"/></td> <td>#A1</td> <td>Full Access</td> <td>GENERIC</td> <td>All ports, 1-way NAT</td> <td>PC 172.24.2.158</td> <td><input type="checkbox"/></td> <td> </td> </tr> <tr> <td>IDLE</td> <td><input type="checkbox"/></td> <td>#01</td> <td>Panel</td> <td>Schneider Electric</td> <td>Ethernet</td> <td>PC</td> <td><input type="checkbox"/></td> <td> </td> </tr> </tbody> </table> <p>Refresh Save New</p>	Status	Disable	S/N	Device Name	Device Type	Device IP & Parameters	EasyLog	Comment	IDLE	<input type="checkbox"/>	#A1	Full Access	GENERIC	All ports, 1-way NAT	PC 172.24.2.158	<input type="checkbox"/>		IDLE	<input type="checkbox"/>	#01	Panel	Schneider Electric	Ethernet	PC	<input type="checkbox"/>	
Status	Disable	S/N	Device Name	Device Type	Device IP & Parameters	EasyLog	Comment																				
IDLE	<input type="checkbox"/>	#A1	Full Access	GENERIC	All ports, 1-way NAT	PC 172.24.2.158	<input type="checkbox"/>																				
IDLE	<input type="checkbox"/>	#01	Panel	Schneider Electric	Ethernet	PC	<input type="checkbox"/>																				

Step	Action
2	<p>Select <b>New</b> and enter the following details.</p>  <p><b>1 Device Name:</b> Enter the name that appears in LinkManager.</p> <p><b>2 Device Type:</b> Select the type of device. The default (Generic) is the state where all the ports are open. Change to the port as used by your application.</p> <p><b>3 Device IP &amp; Parameters:</b> Enter the IP address of the device. The IP address must be accessible from the computer where SiteManager Embedded is installed.</p> <p><b>NOTE:</b> The standard ports required for access by an agent are already registered. However, if you need to use another port, you can set it up. Click the <b>Parameters Details</b> icon , and enter the port number. (You can check which standard ports are already set up by hovering the cursor over the Input dialog box.)</p>  <p>Device Address: <input type="text"/></p> <p>Address on LinkManager: <input type="text"/></p> <p>Address on GateManager: <input type="text"/></p> <p>Extra TCP ports: <input type="text"/></p> <p>Extra UDP ports: <input type="text"/></p> <p>Extra GTA Service: <input type="text"/></p>
3	<p>Click <b>Save</b> and <b>Refresh</b> a couple of times until the <b>Status</b> becomes idle, indicating that SiteManager Embedded can reach the device.</p>
4	<p>Log in to LinkManager, click <b>Refresh</b> to update changes, and click <b>+</b> to expand and view the agents on the SiteManager.</p>
5	<p>To connect to the new agent, click the agent description.</p>  <p>Logout Services GM Login Sniffer Chat Refresh</p> <p>LinkManager A: ROOT.CustomerA</p> <p>ROOT.CustomerA</p> <p>Show all Refresh</p> <p>LinkManager A [WAIT STOPPED]</p> <p>SiteManager A [WAIT STOPPED] &lt;Connect all&gt;</p> <p>Full Access (SiteManager A)</p> <p>panel (SiteManager A)</p> <p>Show all Expand all Refresh</p>



Step	Action																											
6	<p><b>Result:</b> You are now connected to the IP address of the device.</p>  <p>The screenshot shows the SiteManager interface with the following connection details:</p> <table border="1" data-bbox="316 259 1179 332"> <thead> <tr> <th>Agent</th> <th>Address</th> <th>Status</th> <th>Connects ok</th> <th>Connects fail</th> <th>Packets tx</th> <th>Packets rx</th> <th>Bytes tx</th> <th>Bytes rx</th> </tr> </thead> <tbody> <tr> <td>Full Access</td> <td>84.0.127.91 (udp)</td> <td>IDLE</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td></td> <td></td> <td>IDLE</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p><b>NOTE:</b> Select the <b>Auto-reconnect</b> checkbox, to ensure LinkManager will always be reconnected to SiteManager (transfer project file to the display unit).</p>	Agent	Address	Status	Connects ok	Connects fail	Packets tx	Packets rx	Bytes tx	Bytes rx	Full Access	84.0.127.91 (udp)	IDLE	0	0	0	0	0	0			IDLE	0	0	0	0	0	0
Agent	Address	Status	Connects ok	Connects fail	Packets tx	Packets rx	Bytes tx	Bytes rx																				
Full Access	84.0.127.91 (udp)	IDLE	0	0	0	0	0	0																				
		IDLE	0	0	0	0	0	0																				
7	<p>Start the software for remote monitoring for the device and define the device IP address.</p>  <p>The screenshot shows two overlapping windows. The top window is the 'Connect new' dialog box with the following fields:</p> <ul style="list-style-type: none"> <li>Connect new (selected)</li> <li>Connect with a file</li> <li>Recently used files table (empty)</li> <li>Server(Display Unit) connecting to:             <ul style="list-style-type: none"> <li>IP Address: 172.24.2.126</li> <li>Node[Model]: {&lt;Unknown&gt;}</li> <li>Transmission Port: 21</li> <li>PASV: <input checked="" type="checkbox"/></li> </ul> </li> <li>START CONNECTIO button</li> </ul> <p>The bottom window is the 'Switch/Lamp' control interface, which includes:</p> <ul style="list-style-type: none"> <li>Radio Switch: Turn ON if keep touching for 3sec.</li> <li>Interlock: Lock/UNLOCK buttons and OFF button.</li> <li>Selector Switch: OFF, L, H positions.</li> <li>On delay: 0 Sec.</li> <li>Off delay: 0 Sec.</li> </ul>																											



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# Glossary



## A

### **Agent**

Generic term for display units and external devices that SiteManager Embedded allowed to connect to the network. The number of units (Agents) you can register differs depending on your license.

## D

### **device/PLC**

Indicates a device, such as a PLC (Programmable Logic Controller), 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 & Logic Program Software.

## G

### **GateManager**

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

## L

### **LinkManager**

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

### **LinkManager Mobile**

A service on the GateManager, allows remote access to web enabled and VNC/RDP (Virtual Network Computing/Remote Desktop Protocol) devices from a browser.

## S

### **SiteManager**

Refers to display units on the work site connected to the Vijeo Connect network.

### **SiteManager Embedded**

Software used to set up access to the Vijeo 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 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.

### **screen editor & logic program software**

Indicates WebGate for Vijeo Designer.