

Machine Automation Controller NJ/NX-series

Startup Guide

Remote Access

RT1-series

SiteManager RT100

RT100-EMM3010

RT100-4GM3010-G

RT100-4GM3010-J

RT100-W5M3010

GateManager

LinkManager

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Table of Contents

1. Related Manuals.....	1
2. Precautions.....	2
3. Overview	4
4. Device Configuration	5
4.1. Applicable Devices	5
4.2. Device Configuration	6
5. Remote Access Settings	9
5.1. GateManager Settings	9
5.2. SiteManager Settings	9
5.3. LinkManager User Account Settings.....	10
5.4. Controller Setup	10
6. Connection Procedure for Remote Access.....	11
6.1. Work Flow	11
6.2. GateManager Setup	13
6.3. SiteManager Setup	20
6.4. Remote Access Confirmation.....	37
7. Initialization Method.....	47
7.1. Controller Initialization.....	47
7.2. SiteManager Initialization	48
8. Revision History.....	49

1. Related Manuals

To ensure system safety, make sure to always read and follow the information provided in all Safety Precautions and Precautions for Safe Use in the manuals for each device used in the system.

The table below lists the manuals provided the OMRON Corporation (hereinafter referred to as "OMRON"), which pertain to this guide.

Manufacturer	Cat. No.	Model	Manual name
OMRON	W504	SYSMAC-SE2□□□	Sysmac Studio Version 1 Operation Manual
OMRON	W500	NJ501-□□□□ NJ301-□□□□ NJ101-□□□□	NJ-series CPU Unit Hardware User's Manual
OMRON	W535	NX701-□□□□	NX-series CPU Unit Hardware User's Manual
OMRON	W578	NX1P2-□□□□	NX-series NX1P2 CPU Unit Hardware User's Manual
OMRON	W593	NX102-□□□□	NX-series NX102 CPU Unit Hardware User's Manual

2. Precautions

- (1) Understand the specifications of devices which are used in the system. Allow some margin for ratings and performance. Provide safety measures, such as installing a safety circuit, in order to ensure safety and minimize the risk of abnormal occurrence.
- (2) To ensure system safety, make sure to always read and follow the information provided in all Safety Precautions and Precautions for Safe Use in the manuals for each device used in the system.
- (3) The user is encouraged to confirm the standards and regulations that the system must conform to.
- (4) It is prohibited to copy, to reproduce, and to distribute a part or the whole of this guide without the permission of OMRON Corporation.
- (5) The information contained in this guide is current as of September 2020. It is subject to change for improvement without notice.

The following notations are used in this guide.



WARNING

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or may result in serious injury or death. Additionally, there may be significant property damage.



Caution

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.



Precautions for Correct Use

Precautions on what to do and what not to do to ensure proper operation and performance.



Additional Information

Additional information to read as required.

This information is provided to increase understanding or make operation easier.

Symbol



The filled circle symbol indicates operations that you must do.

The specific operation is shown in the circle and explained in the text.

This example shows a general precaution for something that you must do.

3. Overview

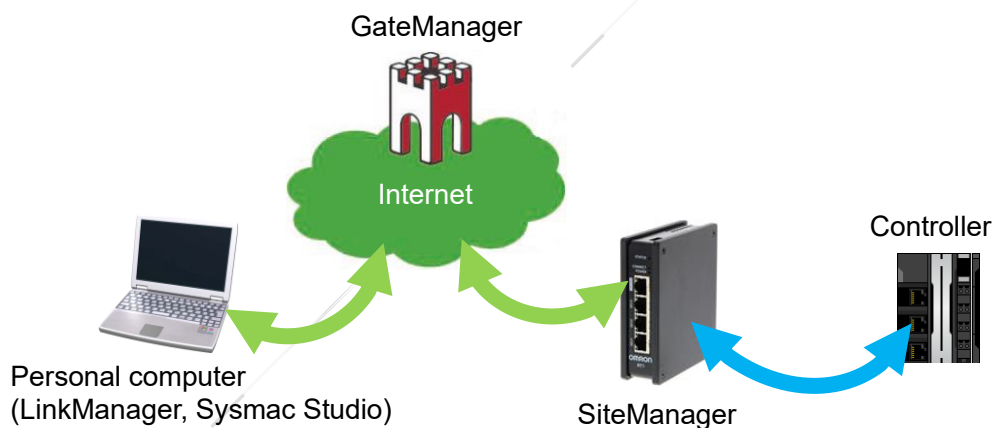
This guide describes the connection procedure for remote access from Sysmac Studio on a personal computer to an NJ/NX-series Machine Automation Controller (hereinafter referred to as the "Controller") in a remote location, by using RT SiteManager, GateManager and LinkManager.

Refer to *Section 5 Remote Access Settings* and *Section 6 Connection Procedure for Remote Access* to understand setting methods and key points so that you can build a secure remote access environment via the internet.

The SiteManager is a remote access gateway (hardware) that is installed in the field.

The LinkManager is a communication software for remote access from your personal computer in a remote location to a device placed in the field.

The GateManager is a cloud service (M2M server) to remotely connect the SiteManager and the LinkManager via the internet.



Caution

The purpose of this guide is to explain the settings and procedures required for online connections via the internet between Sysmac Studio on a personal computer and the Controller in a remote location. This is not to explain control commands or remote monitoring performed using remote access to control devices connected to the Controller. When you set up an on-site system, refer to this guide and with safety in mind, make sure an online connection can be made between Sysmac Studio on your personal computer and the Controller in a remote location, with no control devices connected to the Controller.



4. Device Configuration

4.1. Applicable Devices

The applicable devices are as follows:

Manufacturer	Name	Model
OMRON	SiteManager	RT100-EMM3010 (internet connection via LAN)
		RT100-4GM3010-G (internet connection via 3G/4G Global)
		RT100-4GM3010-J (internet connection via 3G/4G Japan)
		RT100-W5M3010 (internet connection via WiFi)

Hereinafter, in this guide, the internet connection via LAN is referred to as "LAN connection", the internet connection via 3G/4G is referred to as "3G/4G connection" and the internet connection via WiFi is referred to as "WiFi connection".



Precautions for Correct Use

In this guide, the devices with models and versions listed in 4.2. *Device Configuration* are used as examples of applicable devices to describe the procedures for connecting the devices and checking their connection. You cannot use devices with versions lower than those listed in 4.2. To use the above devices with models not listed in 4.2 or versions higher than those listed in 4.2, check the differences in the specifications by referring to the manuals before operating the devices.



Additional Information

This guide describes the procedures for establishing the network connection. It does not provide information on operation, installation, wiring method, device functionality, or device operation, which is not related to the connection procedures. Refer to the manuals or contact the manufacturers of the applicable devices.

4.2. Device Configuration

The hardware components to replicate the connection procedures in this guide are as follows. The SiteManager provides three connection models according to the connection method with the GateManager: (1) LAN connection, (2) 3G/4G connection and (3) WiFi connection. Although there are several ways to connect a personal computer to the internet, such as connections through a LAN environment and a WiFi access point, you need an environment where you can connect to cloud services on the internet, in order to connect your personal computer and the GateManager.

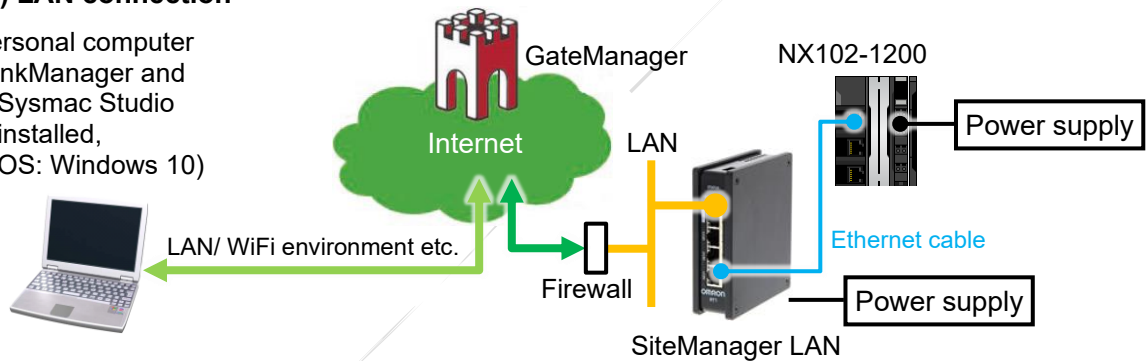


Precautions for Correct Use

For security reasons, some network operating environments do not allow a personal computer to connect to cloud services on the internet. Be sure to confirm in advance that the network you use can connect your personal computer and the GateManager.

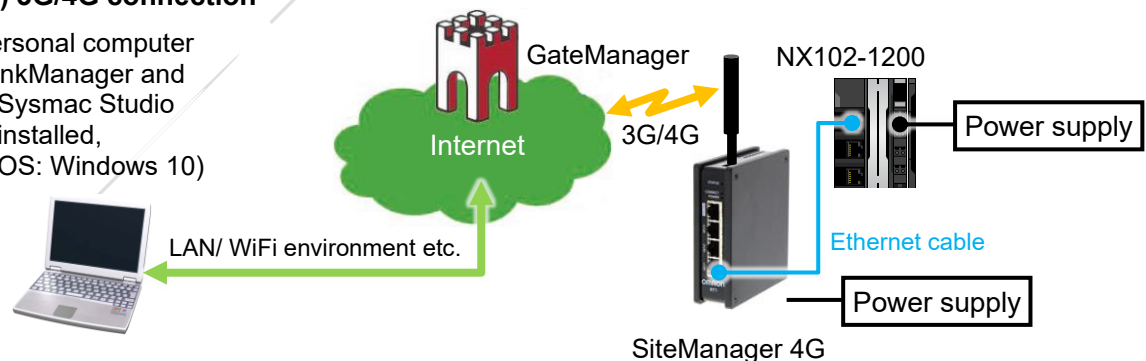
(1) LAN connection

Personal computer
(LinkManager and
Sysmac Studio
installed,
OS: Windows 10)



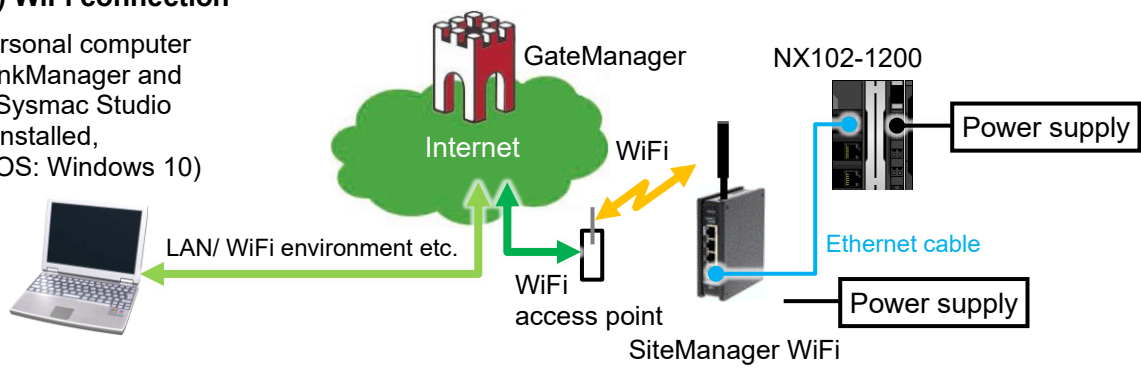
(2) 3G/4G connection

Personal computer
(LinkManager and
Sysmac Studio
installed,
OS: Windows 10)



(3) WiFi connection

Personal computer
(LinkManager and
Sysmac Studio
installed,
OS: Windows 10)



Hardware component list

Manufacturer	Name	Model	Version
OMRON	Controller	NX102-1200	Ver.1.40
—	Power supply (24 VDC for Controller)	—	
OMRON	Sysmac Studio	SYSMAC-SE2□□□	Ver.1.41
OMRON	Ethernet cable (with industrial Ethernet connector)	XS5W-T421-□M□-K	
—	Personal computer (OS: Windows 10, Web browser)	—	

**Precautions for Correct Use**

A web browser (hereinafter referred to as the "browser") is required for your personal computer. You can use browsers such as the one that comes standard with Windows.

**Precautions for Correct Use**

The devices with versions lower than those listed in the *Hardware component list* above are not covered by this guide. To use the devices with models not listed in or versions higher than those listed in the *Hardware component list*, check for differences in specifications by referring to the manuals before operating the devices.

**Precautions for Correct Use**

Update Sysmac Studio to the version 1.41 or to a higher version. If you use a version higher than the one specified, the procedures and related screenshots described in *Section 6* and the subsequent sections may not be applicable. In that case, use the equivalent procedures described in this guide by referring to the *Sysmac Studio Version 1 Operation Manual* (Cat. No. W504).

**Additional Information**

For information on the power supply specifications of NX102-1200, refer to the *NX-series*

NX102 CPU Unit Hardware User's Manual (Cat. No. W593).



5. Remote Access Settings

The parameters used in this guide are shown below.

5.1. GateManager Settings

The following setting item is required to log in to the GateManager as an administrator.
The setting value must be determined in advance as this information is determined and managed by the user itself.

Setting item	Setting value	Remarks
Password	●●●●●●●●	The password to log in as a GateManager administrator. The password must be composed of eight or more characters, including letters, numbers and special symbols. It is especially recommended that the password include alphanumeric characters with at least twelve upper and lower case letters, numbers and special symbols such as ". , ' " ? " ! " < " > " and " " " .

5.2. SiteManager Settings

The SiteManager settings are given below.

The setting items vary according to how the SiteManager is connected to the internet.

Setting item	Setting value			Remarks
	(1) LAN connection	(2) 3G/4G connection	(3) WiFi connection	
GateManager Address	(Information described in the e-mail sent to the user)			GateManager connection information
Domain Token	(Information described in the e-mail sent to the user)			
Appliance Name	SM01 (It is determined by the user. SM01 is used in this guide.)			Management name of the SiteManager
Uplink port	DHCP	—	—	(1) LAN connection If the network environment requires settings in Static mode, obtain and set an available IP address from your network administrator.
Uplink2 (Mobile broadband)	—	(information provided by your mobile carrier with a SIM card)	—	(2) 3G/4G connection ASN / User Name / Password
Uplink2 (WiFi)	—	—	(WiFi connection information according to the usage environment)	(3) WiFi information (connection destination) WiFi SSID / WiFi Key
DEV port	IP address: 192.168.250.10 Subnet mask: 255.255.255.0 (In this guide, they are set to the values that belong to the same subnet as the Controller.)			IP address and subnet mask of DEV1–DEV3 ports
Device Agents	Device Name :NX01 (It is determined by the user. NX01 is mostly used in this guide.)			Management name of the target device
	Device Type :omron / Ethernet PLC (They are selected from the pre-registered classifications in the SiteManager.)			Manufacturer name of the target device (Controller) / device type
	Device IP & Parameters: 192.168.250.1 (The default value of the port 1 on the Controller is used in this guide.)			IP address of the target device (Controller)

5.3. LinkManager User Account Settings

The LinkManager user account settings for GateManager login are given below.

As they, except for the account role and account language, are determined and managed by the user, their setting values must be determined in advance.

Setting item	Setting value	Remarks
Account Name	LM-User01	LinkManager user name (LM-User01 is used in this guide.)
Account Role	LinkManager User	Create an account as a LinkManager user.
Account Language	English	Display language
Person Name	XXXXX	User name for screen display
Email	xxxxx@xxxx.xxx	An Email address to receive the created LinkManager user account.
Password	●●●●●●●●	A password to log in to the GateManager as a LinkManager user. The password must be composed of eight or more characters, including letters, numbers and special symbols. It is especially recommended that the password include alphanumeric characters with at least twelve upper and lower case letters, numbers and special symbols such as ". ", " ", " ", " ? ", " ! ", " < ", " > " and " " " .

5.4. Controller Setup

The NX102-1200 Controller is used in this guide.

The port 1 is used as a remote access connection destination, and the default value is used for the IP address.

Setting item	Controller (Port 1)
IP address	192.168.250.1 (default)
Subnet mask	255.255.255.0 (default)



Precautions for Correct Use

The procedure for setting up the Controller is based on the factory default settings.

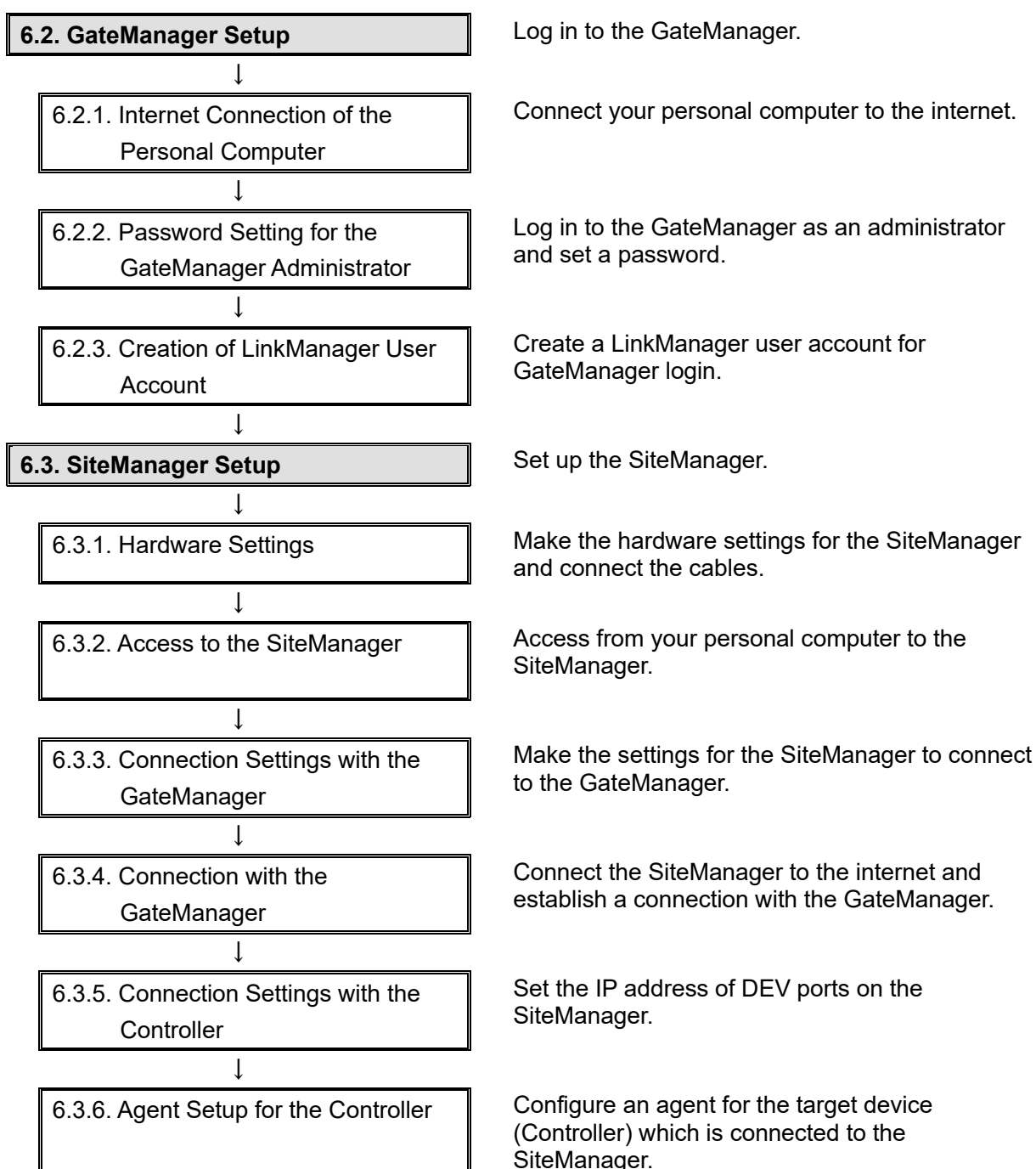
Refer to *Section 7 Initialization Method* for information on how to initialize the Controller.

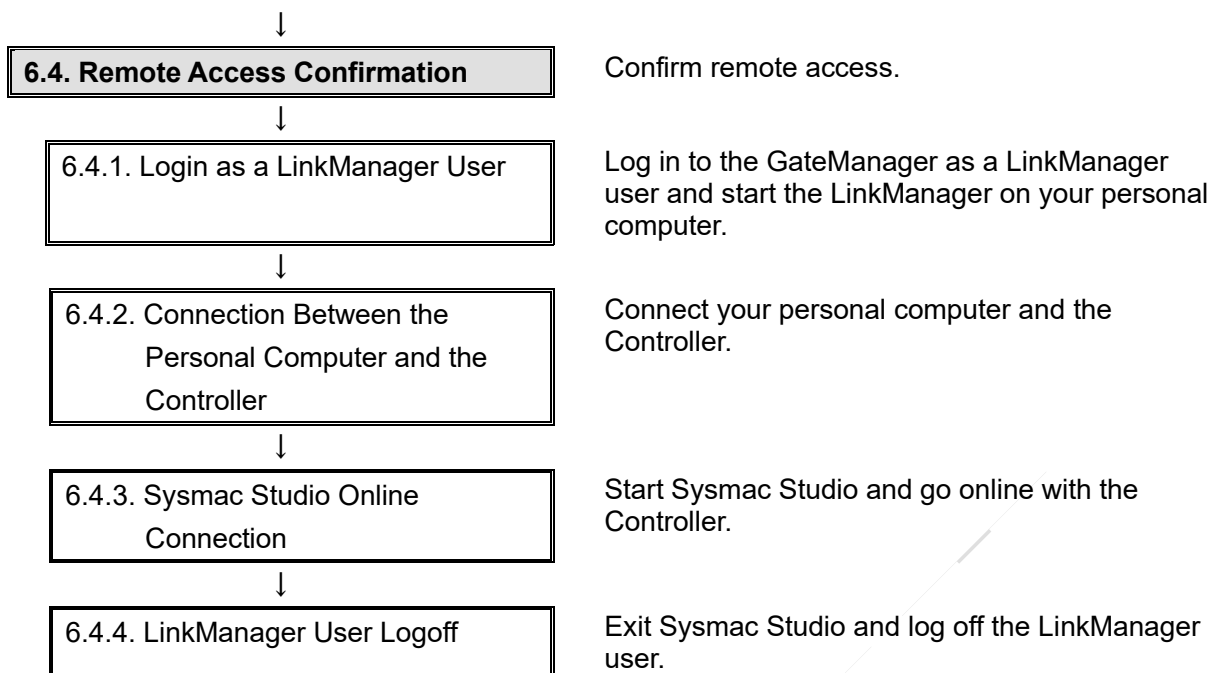
6. Connection Procedure for Remote Access

This section describes the procedures for remote access from Sysmac Studio on a personal computer to the Controller in a remote location via the internet. The procedures for setting up the Controller and the SiteManager in this guide are based on the factory default settings. Refer to *Section 7 Initialization Method* for information on how to initialize the Controller and the SiteManager.

6.1. Work Flow

Take the following steps to remotely access from Sysmac Studio on your personal computer to the Controller in a remote location.





6.2. GateManager Setup

Log in to the GateManager.

6.2.1. Internet Connection of the Personal Computer

Connect your personal computer to the internet.

Although there are several ways to connect a personal computer and the internet, such as connections through a LAN environment and a WiFi access point, you need an environment where you can connect your personal computer and cloud services on the internet.

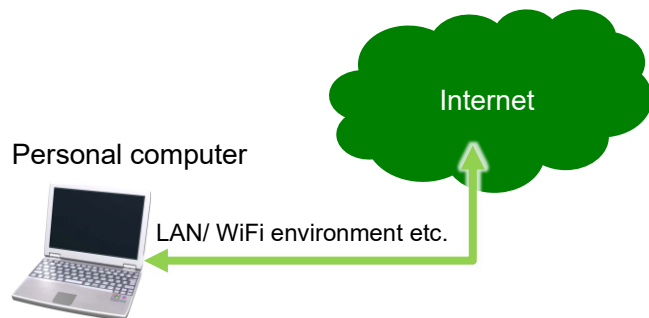


Precautions for Correct Use

For security reasons, some network operating environments do not allow a personal computer to connect to cloud services on the internet. Be sure to confirm in advance that the network you use can connect your personal computer and the GateManager.

- 1 Connect Personal computer to the internet.

*Use a network operating environment where your personal computer can connect to cloud services.



6.2.2. Password Setting for the GateManager Administrator

Log in to the GateManager as an administrator and set a password.

A one-time password for first time login to the GateManager is sent with a certificate via email to you. The one-time password is valid within forty eight hours after you receive the email.

You first need to change the one-time password to a new password of your choice.

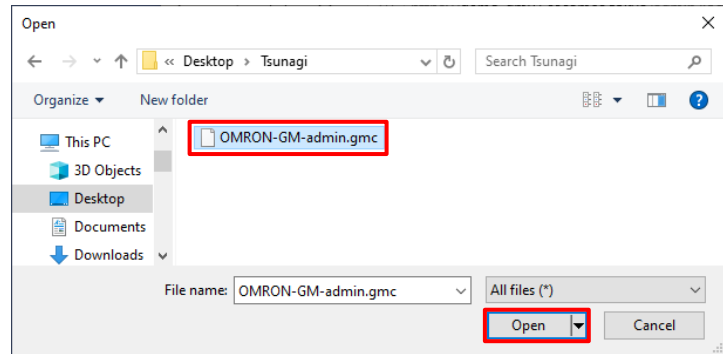


Precautions for Correct Use

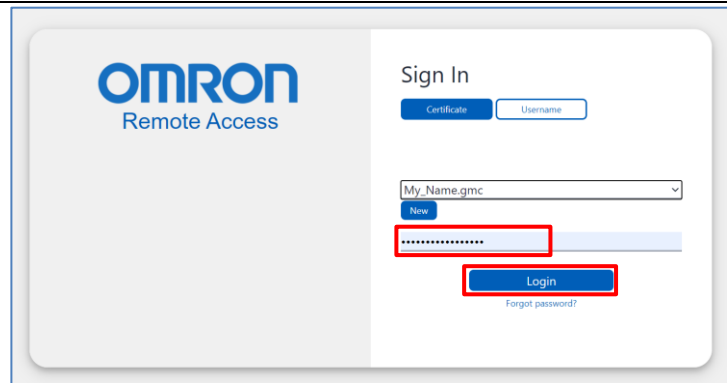
To log in to the GateManager, you need a certificate which is usually sent via email to the user. If you do not have the certificate at hand, contact your local Omron representative.

<p>1 Open the email with the attached Certificate and save Certificate on Personal computer.</p>	
<p>2 The URL to open the GateManager login screen is provided in the email. Click the URL https://rt1-gm01.automation.omron.com/</p>	
<p>3 The browser starts up, and the GateManager login screen appears. Select the <i>Certificate</i> Option, and check the box for <i>Remember Certificate</i>. Click Choose.</p>	

- 4** The dialog box for opening Certificate appears.
Select Certificate saved in step 1, and click **Open**.



- 5** The GateManager login screen appears again.
Enter the one-time password (provided in the email in step 1) in the *Password* Field.
Click **Login**.

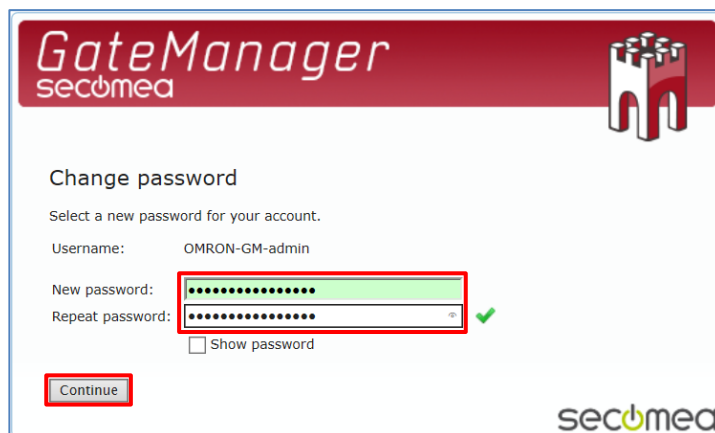


- 6** You are asked to change the password when you first time log in to GateManager using Certificate and one-time password provided in the email. Enter your pre-determined password in the *New password* and *Repeat password* Fields. Click **Continue**.

*It is recommended that the password include alphanumeric characters with at least 12 upper and lower case letters, numbers and special symbols such as ". ", ",", "?", "!", "<", ">" and """.

*The password set here can be used the next time you log in.

*If 48 hours have passed since you received the email, the one-time password provided in the email will no longer be valid. In that case, when you log in with the one-time password provided in the email, the Login Failed screen appears. Click **Renew** displayed on the screen so that a new one-time password can be sent to you.



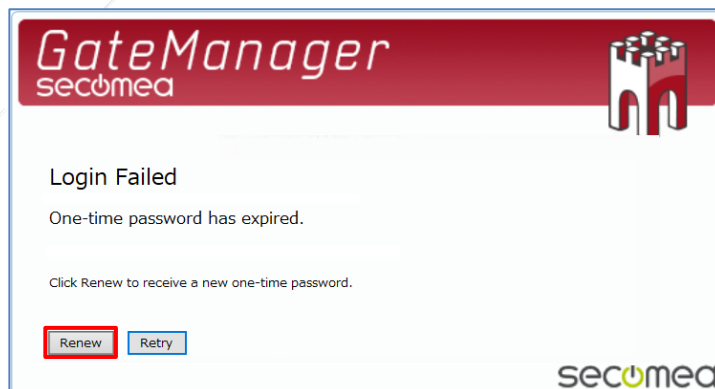
The screenshot shows the 'Change password' interface of GateManager by secomea. It includes a header with the logo and a castle icon. The main text says 'Change password' and 'Select a new password for your account.' Below this, the 'Username' is 'OMRON-GM-admin'. There are two password fields: 'New password' and 'Repeat password'. The 'New password' field has a green background, indicating it meets requirements, and is highlighted with a red box. The 'Repeat password' field has a grey background and a green checkmark to its right. A 'Show password' checkbox is present. At the bottom left is a 'Continue' button, also highlighted with a red box. The secomea logo is at the bottom right.

The color of the New password Field indicates the following states.

Green: Your password meets the requirements.

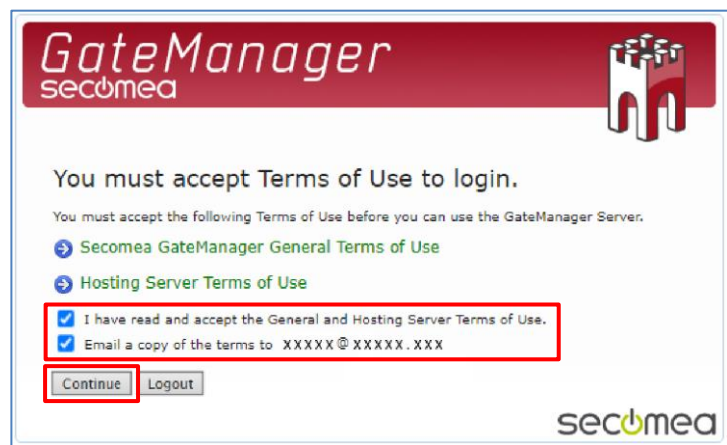
Yellow: Your password meets the requirements but is weak.

Red: Your password does not meet the requirements. You need to re-enter a password that meets the requirements.



The screenshot shows the 'Login Failed' interface of GateManager by secomea. It includes a header with the logo and a castle icon. The main text says 'Login Failed' and 'One-time password has expired.' Below this, it says 'Click Renew to receive a new one-time password.' At the bottom left are two buttons: 'Renew' (highlighted with a red box) and 'Retry'. The secomea logo is at the bottom right.

- 7** After completing the first login process, the dialog box on the right appears asking you to accept the Terms of Use. Select the first checkbox to accept the Terms of Use. If you wish to receive a copy of the Terms of Use via email, select the second box. Click **Continue**.



GateManager
sec_omea

You must accept Terms of Use to login.

You must accept the following Terms of Use before you can use the GateManager Server.

- Secomea GateManager General Terms of Use
- Hosting Server Terms of Use

☒ I have read and accept the General and Hosting Server Terms of Use.

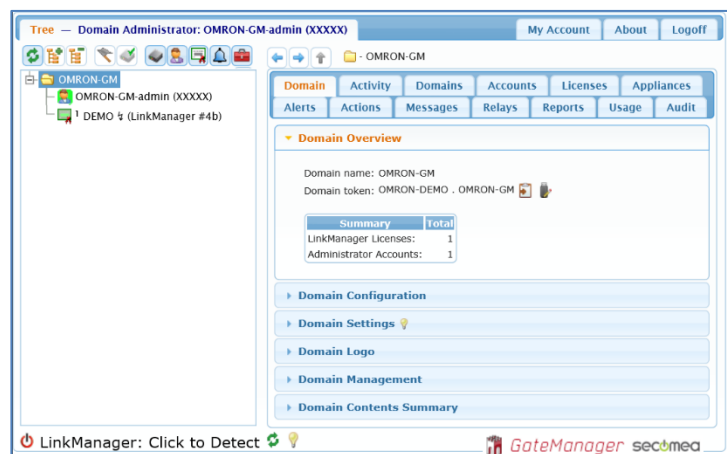
☒ Email a copy of the terms to XXXXX@XXXXX.XXX

Continue Logout

sec_omea

- 8** Check that the login to GateManager as an administrator is completed and that the GUI screen for GateManager administrators (as shown on the right) appears.

*The GateManager administrator login password is set.



Tree — Domain Administrator: OMRON-GM-admin (XXXXX)

My Account About Logoff

OMRON-GM

OMRON-GM-admin (XXXXX)

DEMO 4 (LinkManager #4b)

Domain Activity Domains Accounts Licenses Appliances

Alerts Actions Messages Relays Reports Usage Audit

Domain Overview

Domain name: OMRON-GM

Domain token: OMRON-DEMO . OMRON-GM

Summary	Total
LinkManager Licenses:	1
Administrator Accounts:	1

Domain Configuration

Domain Settings

Domain Logo

Domain Management

Domain Contents Summary

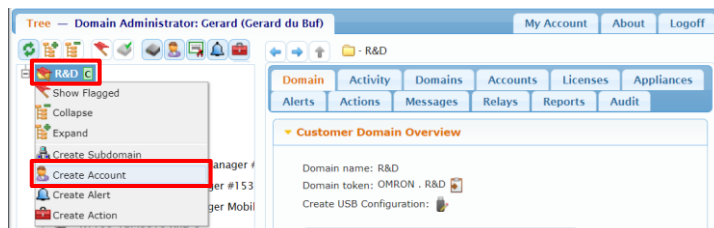
LinkManager: Click to Detect

GateManager sec_omea

6.2.3. Creation of LinkManager User Account

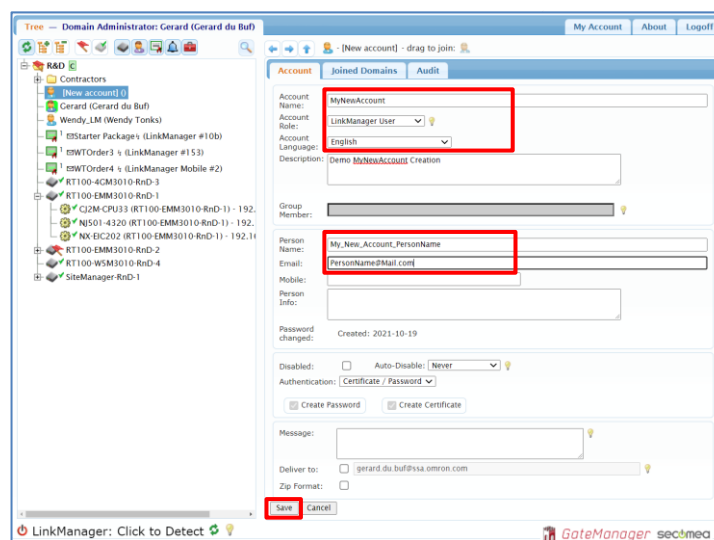
Create a LinkManager user account for GateManager login.

- 1 On the GUI screen for GateManager administrators, right-click the top-level item (in this case, R&D) in the configuration tree, and select **Create Account** from the menu.

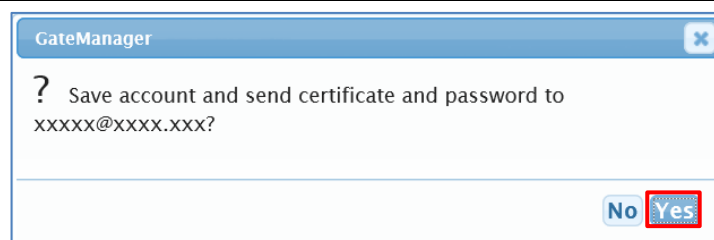


- 2 The screen on the right appears. Enter or select the following information and click **Save**.

- Account Name: **LM-User01**
(It is determined by the user.)
"MyNewAccount" is used in this image.)
- Account Role: **LinkManager User**
(Select the role you are undertaking.)
- Account Language: **English**
(Select the language you wish to use.)
- Person Name: **XXXXXX**
(It is determined by the user.)
- Email: **xxxxx@xxxx.xxx**
(Set an email address to receive the account information.)

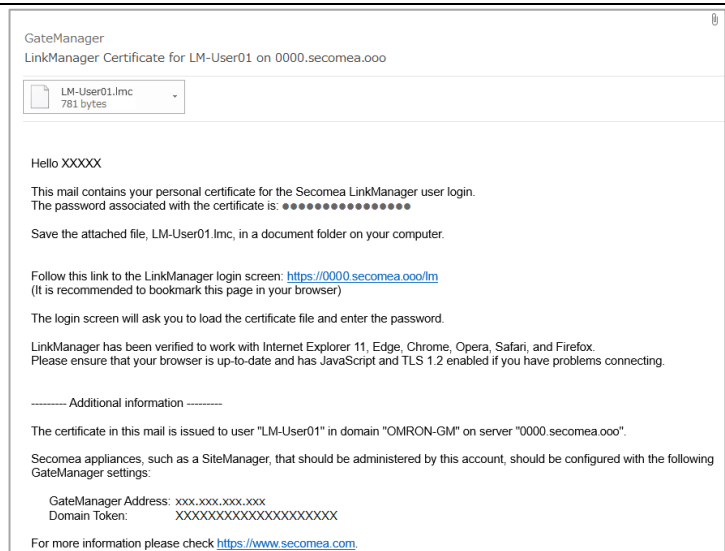


- 3 A dialog box appears confirming the email address to which the created account information of the LinkManager user will be sent. Confirm that there is no problem, and click **Yes**.

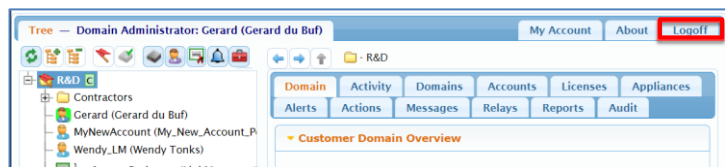


- 4** Check that the email with Certificate for the LinkManager user (as shown in the figure on the right) is received at the email address you set.

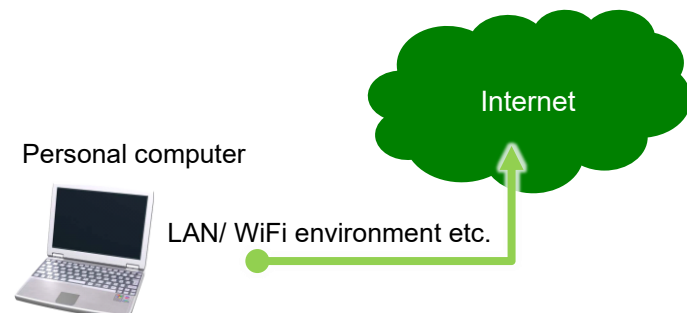
**This email is used in 6.4.1.
Login as a LinkManager User.*



- 5** In the next procedure 6.3, Personal computer is used for the SiteManager setup. Click **Logoff** at the top right of the GUI screen to log off GateManager.



- 6** Disconnect Personal computer from the internet.



6.3. SiteManager Setup

Set up the SiteManager.

Although there are several ways to set up the SiteManager, this guide describes how to connect the DEV ports on the SiteManager directly to your personal computer with an Ethernet cable and how to set it up in the browser.



Additional Information

There are other ways to set up the SiteManager.

For more information refer to the instruction sheet delivered with your product for details.

- Load the configuration file created on the GateManager into the SiteManager via a USB stick
 - Configure the SiteManager by using the Wizard-based Windows application "Appliance Launcher" installed on your personal computer
-

6.3.1. Hardware Settings

Make the hardware settings for the SiteManager and connect the cables.



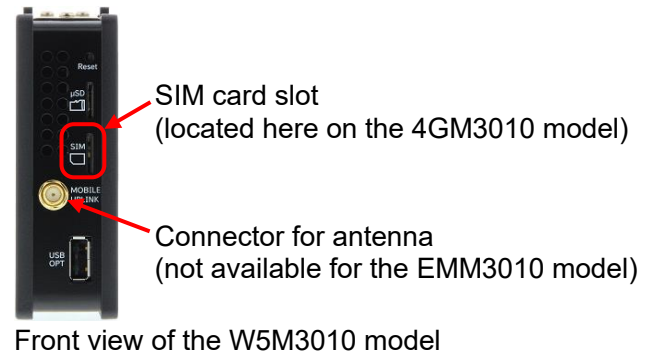
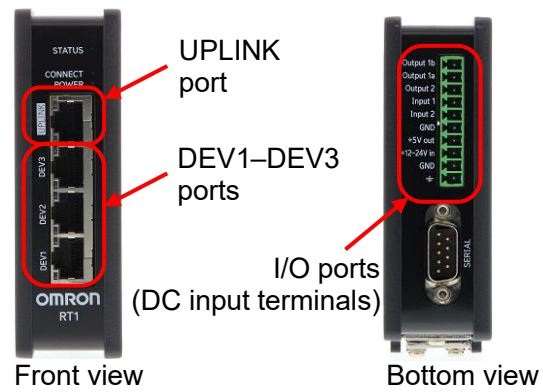
Precautions for Correct Use

Make sure the power supplies are OFF before setting up. If either of them is ON, the settings described in the following steps and subsequent procedures may not be applicable.

- 1** Make sure Power supplies for SiteManager and Controller are OFF.
-

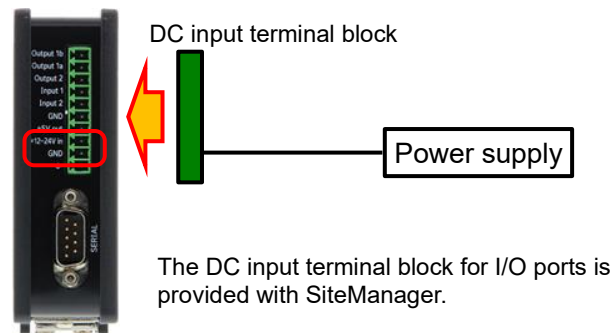
- 2** Check the positions of UPLINK port, DEV1–DEV3 ports, I/O ports (DC input terminals) and if necessary, Connector for antenna and SIM card slot by referring to the figure on the right.

*As a reference example, the figure on the right shows the W5M3010 model (WiFi connection).



- 3** Connect Power supply to DC input terminals on the bottom of SiteManager.

*For information on power supply connection to SiteManager, refer to the instruction sheet delivered with your product for details.



4 Connect DEV1 port and DEV2 port on SiteManager to Port 1 on Controller and Ethernet port on Personal computer with Ethernet cables, respectively.

1) LAN connection

Connect UPLINK port and the internet router with an Ethernet cable.

2) 3G/4G connection

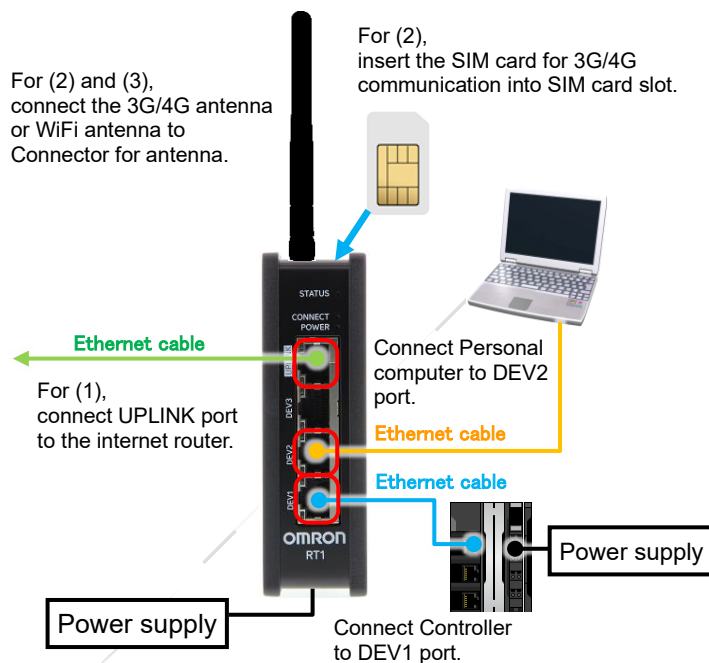
Connect the 3G/4G antenna to Connector for antenna, and insert the SIM card for 3G/4G communication into SIM card slot.

3) WiFi connection

Connect the WiFi antenna to Connector for antenna, and check that the WiFi access point is enabled.

Connect Power supply to Controller.

*For information on the power supply connection to Controller, refer to *5-4-1 Wiring the Unit Power Supply* of the *NX-series NX102 CPU Unit Hardware User's Manual* (Cat. No. W593).



Depending on the model only one DEV port (DEV1) might be provided. Connect Personal computer to DEV1 port during the SiteManager setup. After completing the setup, disconnect Personal computer, and then connect Controller to DEV1 port.

6.3.2. Access to the SiteManager

Access from your personal computer to the SiteManager.



Precautions for Correct Use

If your personal computer is connected to the internet via WiFi connection or other methods, disconnect from the internet.

The following SiteManager settings may not be applicable unless you disconnect the internet.

- 1** Make sure Personal computer is not connected to the internet via WiFi connection or other methods.

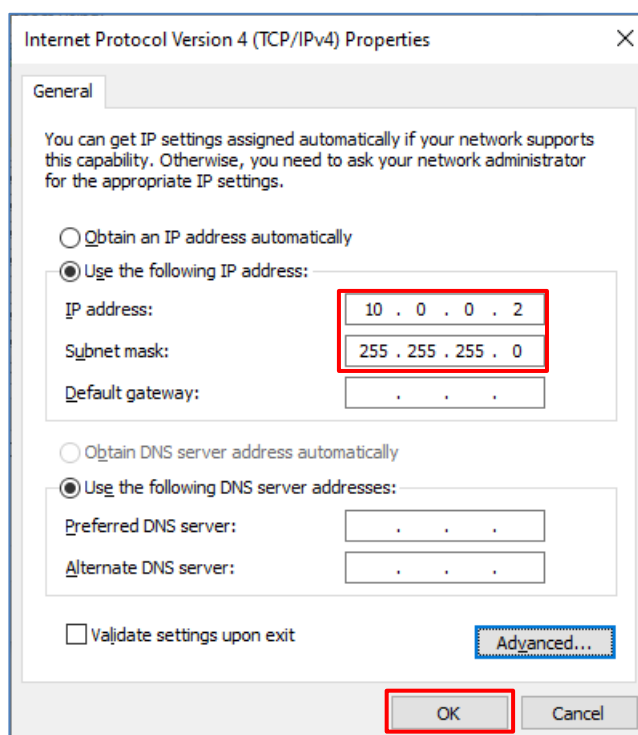
- 2** Change the IP address and subnet mask of Ethernet port on Personal computer to belong to the same subnet as DEV ports on SiteManager.
In this guide, they are set as follows:

- IP address: 10.0.0.2
- Subnet mask: 255.255.255.0

*The IP address (default) of DEV1–DEV3 ports on SiteManager is as follows:

- IP address: 10.0.0.1
- Subnet mask: 255.255.255.0

*If SiteManager is not in the factory default settings, initialize SiteManager by referring to *Section 7. Initialization Method*.



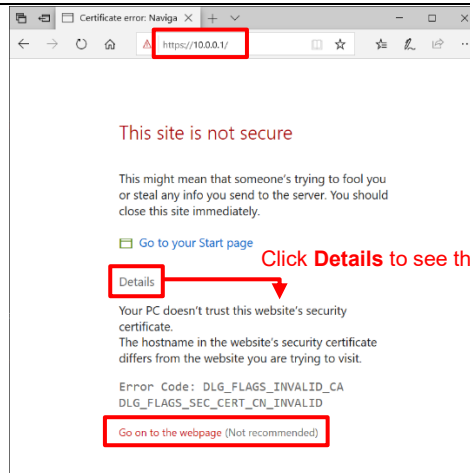
- 3** Turn ON SiteManager and check that the startup is completed.

*The completion of startup can be checked by STATUS LED changing from Steady RED blink to On RED.



4 Start the browser on Personal computer, and go to SiteManager (<https://10.0.0.1/>).

*A warning message appears as shown in the figure on the right, but there is no particular problems. The warning message differs depending on the browser you use. Proceed with going to SiteManager (<https://10.0.0.1/>).

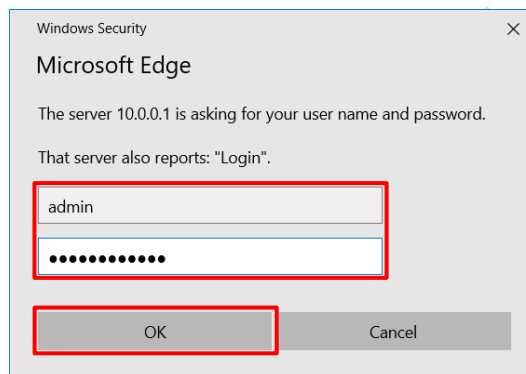


(The figure above is an example of when using Microsoft Edge.)

5 You are asked to enter your user name and password to access SiteManager. Enter the following items and click **OK**.

- User name: *admin*
- Password: MAC address of SiteManager

*The MAC address is printed on the label attached on the side of SiteManager. In the example on the right, *00c0a206babe* is the password.



(The figure above is an example of when using Microsoft Edge.)



6 The SETUP screen for SiteManager appears.

*The screenshots of the RT100-EMM3010 model are used as a reference example in the figures shown in the subsequent procedures.

OMRON Remote Access
[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)
[About](#) • [Troubleshoot](#)

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252.443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not Installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#) it shows specific help for the current configuration page.
Please consult the online help as your first step in solving setup problems.

Interface load for the last 30 minutes

UPLINK 100 Mbps

Legend: Tx Rx

6.3.3. Connection Settings with the GateManager

Make the settings for the SiteManager to connect to the GateManager.

1 The Setup Assistant will appear with this first time some settings that need a Fix.

Click **Fix** for “1. GateManager”

First time:

1. GateManager: Not configured [Fix](#)

Setup Assistant:

OMRON Remote Access
[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)
[About](#) • [Troubleshoot](#)

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252.443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not Installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#) it shows specific help for the current configuration page.
Please consult the online help as your first step in solving setup problems.

2 As shown in the figure on the right, enter setting values in the following three fields.

- GateManager Address
- Domain Token
- Appliance Name

The setting values of the GateManager address and domain token have been listed in Additional information of the email sent to you, which is shown in step 1 of 6.2.2.

Password Setting for the GateManager Administrator.

Enter those setting values in the fields.

In the *Appliance Name* Field, enter a name to manage SiteManager.

SM01 is used in this guide.

Click **Save**.

After completing the settings, click **Continue Setup**.

The SETUP screen in step 1 appears again.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

GateManager Settings - Setup Assistant

Help Continue Setup >

GateManager connected: 193.242.155.252:443 (UPLINK)

Remote Management: Enabled

GateManager Address: * xxx.xxx.xxx.xxx

Domain Token: * XXXXXXXXXXXXXXXXXXXX

Appliance Name: * Your Appliance e.g. RT100-Details

Web-proxy Address:

Web-proxy Account:

Web-proxy Password:

* = Mandatory field

Save More >> Reconnect

Email that was sent to the user

----- Additional information -----

The certificate in this mail is issued to user "OMRON-GM-admin" in domain "OMRON-GM" on server "0000.secomea.ooo".

Secomea 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:

GateManager Address: xxx.xxx.xxx.xxx

Domain Token: XXXXXXXXXXXXXXXXXXXX

For more information please check <https://www.secomea.com>.

6.3.4. Connection with the GateManager

Connect the SiteManager to the internet and establish a connection with the GateManager.

There are three ways to connect to the internet according to the device you use:

(1) LAN connection, (2) 3G/4G connection and (3) WiFi connection.

Make the settings according to the internet connection.



Precautions for Correct Use

The setting items vary with each of the internet connections (1) to (3) as mentioned above. In the following procedure, perform only those steps that are appropriate for the internet connection you use.

(1) LAN connection

Make the settings of 2. Uplink port.

- 1 Make sure an Internet-accessible Ethernet cable is connected to UPLINK port on SiteManager. Click **Edit** for 2. Uplink port.

OMRON Remote Access

[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)

About • Troubleshoot

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252.443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not Installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#), it shows specific help for the current configuration page.
Please consult the online help as your first step in solving setup problems.

2 The setting screen for the port (UPLINK) connected to the internet appears. Select **DHCP** from the pull-down list in the **Mode** Field. Click **Save**.

*If there is no change in the settings, the Save Button will be grayed out (disabled), which means no need to click on it.

*If you need to make the settings with the static IP address, obtain the available IP address information from the network administrator and enter the values in the **IP Address** and **Subnet Mask** Fields.

After completing the settings, click **Continue Setup**. The SETUP screen in step 1 appears again.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

UPLINK - Setup Assistant

If this is the final location for the SiteManager, or you intend to move the SiteManager to another location that also assigns IP addresses via DHCP you do not need to do further.

If the SiteManager is intended to have a fixed IP address, you should enter it here.

Note that if you change the Uplink settings, you should not reboot the SiteManager until you are done with the configuration.

Help Continue Setup »

Mode: DHCP

IP Address: 10.74.118.77 Reset

Subnet Mask: 255.255.248.0

Default Gateway: 10.74.112.1

Ethernet Settings: Autonegotiation

MTU Mode: Auto

MTU: 1500 bytes [68-1500]

Priority: First

Probe Type: Any

Probe Hosts:

Probe Port (TCP): 80

Probe Interval A: 10 seconds

Probe Interval B: 60 seconds

Save

3 Check that SiteManager is connected to the internet and, with the LED on SiteManager, that communication with GateManager is established.

• STATUS: On GREEN



(2) 3G/4G connection

Make the settings of 3. Uplink2 (Mobile broadband).

- 1** For model RT100-4G ensure the 3G/4G antenna is connected to the antenna connector and that the SIM card for 3G/4G communication is inserted in SIM card slot.

Click **Edit** for 3. Uplink2 (Mobile broadband).

*The figures on the right show the screenshots of the RT100-W5M3010 model.
For other models the name can be different.
E.g. Uplink2 (WiFi)

OMRON Remote Access
[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)
 About • Troubleshoot

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252:443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not Installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#) it shows specific help for the current configuration page.
Please consult the online help as your first step in solving setup problems.

- 2** On the screen for 3G/4G connection settings, set the following items of connection information. Click **Save**.

- APN
- SIM PIN code
- User Name
- Password

*These items of connection information are usually provided with the SIM card.
If you cannot find them, contact your SIM card provider.

After completing the settings, click **Continue Setup**.
The SETUP screen in step 1 appears again.

OMRON Remote Access
[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)
 About • Troubleshoot

UPLINK2 - Setup Assistant

If you intend to use a Mobile broadband modem, you should consider configuring the APN (Access Point Name) and PIN code of the SIM card in the modem now.

You will typically get the APN and PIN code together with the SIM card from the ISP. If a PIN code is not required, just enter 0000 to clear the 'PIN code missing' message. If you leave the APN unconfigured (or if the one you configure doesn't work), all publicly known APNs for the provider of the installed SIM card will be tried (one at a time).

If you do not have this information yet, you can configure it later here, or via the Appliance Launcher.

[Help](#) [Continue Setup »](#)

UPLINK2 option not installed.

Mode: [IP \(and SMS\)](#)

WiFi SSID:

WiFi Key:

APN:

SIM PIN Code:

IP Address:

Subnet Mask:

Default Gateway:

Priority: [Second](#)

Probe Type: [Any](#)

Probe Hosts:

Probe Port (TCP):

Probe Interval A: seconds

Probe Interval B: seconds

SMS Wakeup Parameters:

SMS Wakeup Secret:

Init String:

User Name:

Password:

[Save](#)

- 3** Check that SiteManager is connected to the internet and, with the LEDs on SiteManager, that communication with GateManager is established.



- STATUS: On GREEN
- UPLINK2: On GREEN

(3) WiFi connection

Make the settings of 3. Uplink2 (WiFi)

- 1** Check that the WiFi antenna is connected to Connector for antenna and that the WiFi access point is enabled.
Click **Edit** for 3. Uplink2 WiFi.

OMRON Remote Access

[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)

[About](#) • [Troubleshoot](#)

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252:443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#) it shows specific help for the current configuration page.
Please consult the online help as your first step in solving setup problems.

- 2** On the screen for WiFi connection settings, set the following items of connection information. Click **Save**.

- WiFi SSID
- WiFi Key

*Check the connection information for the WiFi environment you use, and then set the items above.

After completing the settings, click **Continue Setup**. The SETUP screen in step 1 appears again.

OMRON Remote Access
[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)
 About • Troubleshoot

UPLINK2 - Setup Assistant

If you intend to use a Mobile broadband modem, you should consider configuring the APN (Access Point Name) and PIN code of the SIM card in the modem now.

You will typically get the APN and PIN code together with the SIM card from the ISP. If a PIN code is not required, just enter 0000 to clear the "PIN code missing" message. If you leave the APN unconfigured (or if the one you configure doesn't work), all publicly known APNs for the provider of the installed SIM card will be tried (one at a time).

If you do not have this information yet, you can configure it later here, or via the Appliance Launcher.

[Help](#) [Continue Setup >](#)

UPLINK2 is DOWN (UPLINK is default).

Mode:

WiFi SSID: [Scan](#)

WiFi Key:

IP Address: [Reset](#)

Subnet Mask:

Default Gateway:

Priority:

Probe Type:

Probe Hosts:

Probe Port (TCP):

Probe Interval A: seconds

Probe Interval B: seconds

[Save](#)

- 3** Check that SiteManager is connected to the internet and, with the LEDs on SiteManager, that communication with GateManager is established.

- STATUS: On GREEN
- UPLINK2: On GREEN



6.3.5. Connection Settings with the Controller

Set the IP address of DEV ports on the SiteManager.

- 1** Set the IP address of DEV1–DEV3 ports to connect Controller by following the steps below.
- Click **Edit** for 4. DEV port.

OMRON Remote Access
[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)
 About • Troubleshoot

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252.443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not Installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#) it shows specific help for the current configuration page. Please consult the online help as your first step in solving setup problems.

- 2** Change the IP address and subnet mask of DEV1–DEV3 ports to belong to the same subnet as Controller.
- In this guide, the following values are set.

- IP Address: 192.168.250.10
- Subnet Mask: 255.255.255.0

*The IP address (default) of Port 1 on Controller is as follows:

- IP address: 192.168.250.1
- Subnet mask: 255.255.255.0

Click **Save**.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

DEV1 - Setup Assistant

The SiteManager can monitor devices both on the Uplink and Dev interface.

If you intend to only monitor devices in the network of the Uplink side, you do not need to do configure the DEV interface.

If you intend to monitor devices connected to the DEV interface, you should define the SiteManager's DEV interface with an IP address in the same subnet as your device, and with the same subnet mask.

Examples:

- Device IP address: 192.168.2.10 / 255.255.255.0
- suggested DEV IP address: 192.168.2.1 / 255.255.255.0
- Device IP address: 10.100.10.1 / 255.255.0.0
- suggested DEV IP address: 10.100.10.233 / 255.255.0.0

You must ensure that the DEV address of the SiteManager does not conflict with other equipment in the network. If you attach the device directly to the DEV port of the SiteManager (instead of via a switch), you only have to ensure that the DEV IP address and the device address is not the same.

Note that if you change the DEV IP settings, you should not reboot the SiteManager until you are done with the configuration.

Help Continue Setup >

IP Address: 192.168.250.10

Subnet Mask: 255.255.255.0

Auto Subnet Agent: Enabled

Cable Quirk Settings: WA1+WA2

Proxy ARP: Disabled

WiFi SSID:

WiFi Key:

SSID Visibility: Visible

WiFi Mode: Client See System > UPLINK2 for client settings

802.11 Mode: 802.11b/g/n

Channel: 1 [1-13]

TX Power: 0 [0-20]

Save DHCP >> DNS >>

- 3** After completing the IP address settings, reboot SiteManager to reflect the set IP address.
- Click **Maintenance** on the menu bar.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

RT100-EMM3010 - Setup Assistant

- 4** The Maintenance screen appears. Click **Reboot**.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

Maintenance Info • Password • Reboot • Upgrade • Export • Import • Reset

Password: Change password of the admin account.
Always change the password in connection with first-time configuration.
The password must be **minimum 8 characters long**
and contain at least 1 non-alphabetic character.
Further recommendations are in the on-line help.

Reboot: Reboot the appliance.
Note: Rebooting clears the contents of the logs.
If you want to keep the contents of a particular log, before you reboot you can use Log > View for the log and copy its contents to a file.

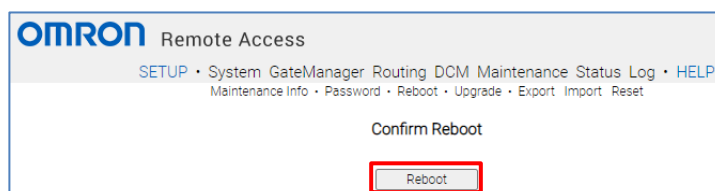
Upgrade: Upgrade firmware.

Export: Export configuration.

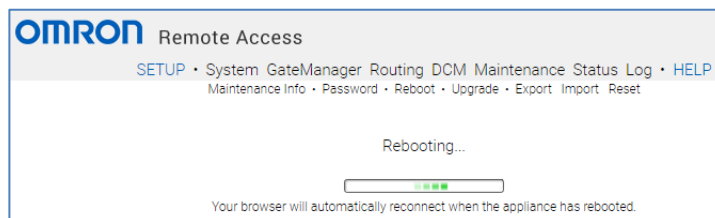
Import: Import configuration.

Reset: Reset configuration to factory defaults.

- 5** A confirmation dialog box appears. Confirm that there is no problem, and click **Reboot**.

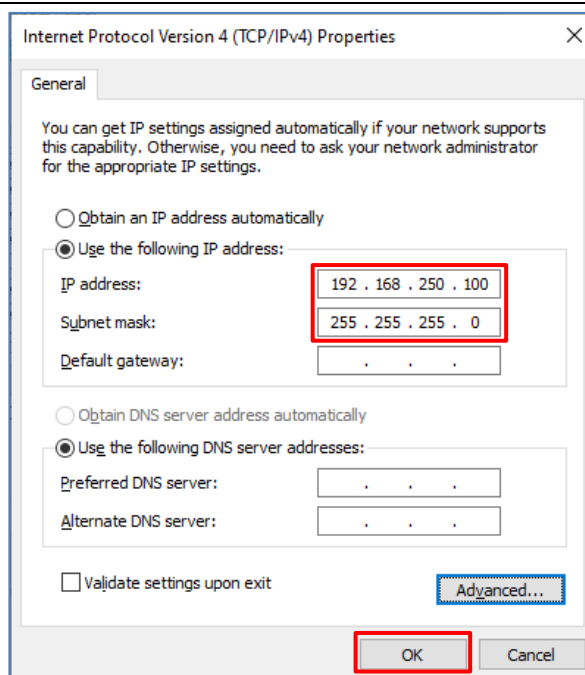


- 6** The SiteManager reboot starts. The link to connect to the new address is displayed.

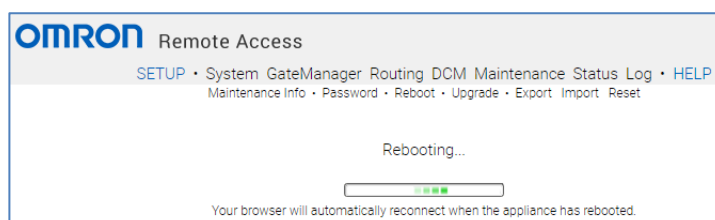


- 7** During the SiteManager reboot, set the IP address of the Ethernet port on Personal computer again to belong to the same subnet as the changed DEV1–DEV3 ports. In this image, the following values are set.

- IP address: 192.168.250.100
- Subnet mask: 255.255.255.0

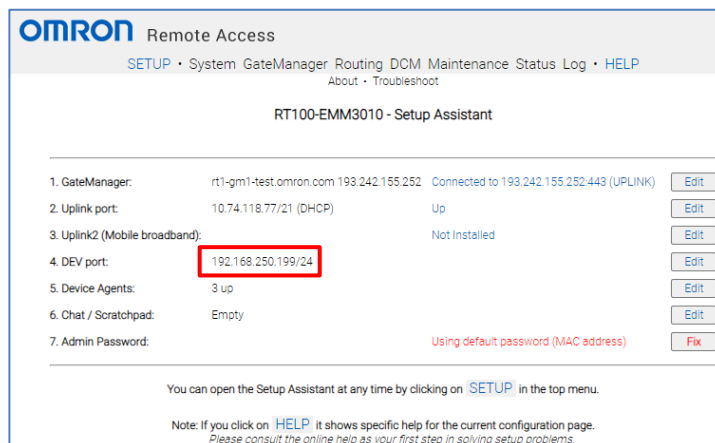


- 8** Check that the SiteManager reboot is completed. When completed the STATUS LED will be GREEN.



- 9** In the same way as steps 4 and 5 of 6.3.2. *Access to the SiteManager*, connect to SiteManager again.

Check that the IP address displayed in the 4. *DEV port* Field is 192.168.250.10.



omron Remote Access

[SETUP](#) • [System](#) [GateManager](#) [Routing](#) [DCM](#) [Maintenance](#) [Status](#) [Log](#) • [HELP](#)

About • Troubleshoot

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252:443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	3 up		Edit
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

You can open the Setup Assistant at any time by clicking on [SETUP](#) in the top menu.

Note: If you click on [HELP](#) it shows specific help for the current configuration page.
Please consult the online help as your first step in solving setup problems.

6.3.6. Agent Setup for the Controller

Configure an agent for the target device (Controller) which is connected to the SiteManager. This process is called "Agent Setup".

- 1 To make Agent Setup for Controller, click **Fix** for 5. Device Agents on the SETUP screen for SiteManager.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

RT100-EMM3010 - Setup Assistant

1. GateManager:	rt1-gm1-test.omron.com 193.242.155.252	Connected to 193.242.155.252.443 (UPLINK)	Edit
2. Uplink port:	10.74.118.77/21 (DHCP)	Up	Edit
3. Uplink2 (Mobile broadband):		Not Installed	Edit
4. DEV port:	192.168.250.199/24		Edit
5. Device Agents:	No agents defined		Fix
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:	Using default password (MAC address)		Fix

You can open the Setup Assistant at any time by clicking on **SETUP** in the top menu.

Note: If you click on **HELP**, it shows specific help for the current configuration page. Please consult the online help as your first step in solving setup problems.

- 2 The dialog box on the right appears. Click **New** to configure an agent.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

GateManager Agents - Setup Assistant

You can configure an agent to monitor a device connected to the SiteManager Serial port and TCP/IP enabled devices located on either the DEV network or Uplink network of the SiteManager.

Click [New], and give the Agent a name (this name will be what the LinkManager user will see), and select a suitable device type (first vendor, then model). Then click on **OK** to specify the device address and other relevant parameters.

The SiteManager will instantly try to connect to the device, and if successful the Agent will go IDLE and appear on the GateManager and any LinkManager that have been granted access to the domain of the SiteManager.

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.

Press the [Search] button to search for Ethernet devices that are not yet handled by any Agent.

Help Continue Setup »

Using 0 of 10 agents

Refresh **New** Search

- 3 The Agent Setup screen appears. Enter a name for Controller management in the *Device Name* Field, e.g. NX01. Select **Omron** (manufacturer name) and the **Ethernet PLC** (device type) from the pull-down list in the *Device Type* Field. Enter 192.168.250.1 (Controller IP address) in the *Device IP & Parameters* Field. Click **Save**.

OMRON Remote Access

SETUP • System GateManager Routing DCM Maintenance Status Log • HELP

About • Troubleshoot

GateManager Agents - Setup Assistant

You can configure an agent to monitor a device connected to the SiteManager Serial port and TCP/IP enabled devices located on either the DEV network or Uplink network of the SiteManager.

Click [New], and give the Agent a name (this name will be what the LinkManager user will see), and select a suitable device type (first vendor, then model). Then click on **OK** to specify the device address and other relevant parameters.

The SiteManager will instantly try to connect to the device, and if successful the Agent will go IDLE and appear on the GateManager and any LinkManager that have been granted access to the domain of the SiteManager.

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.

Press the [Search] button to search for Ethernet devices that are not yet handled by any Agent.

Help Continue Setup »

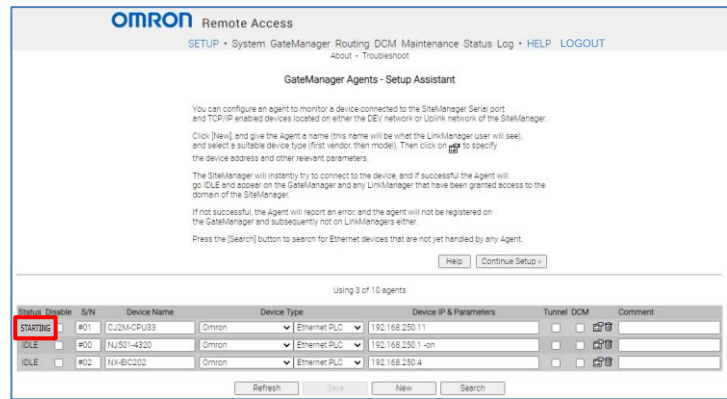
Using 1 of 10 agents

Status	Device Name	Device Type	Device IP & Parameters	Linker	DCM	Comment
New	NX01	Omron Ethernet PLC	192.168.250.1			

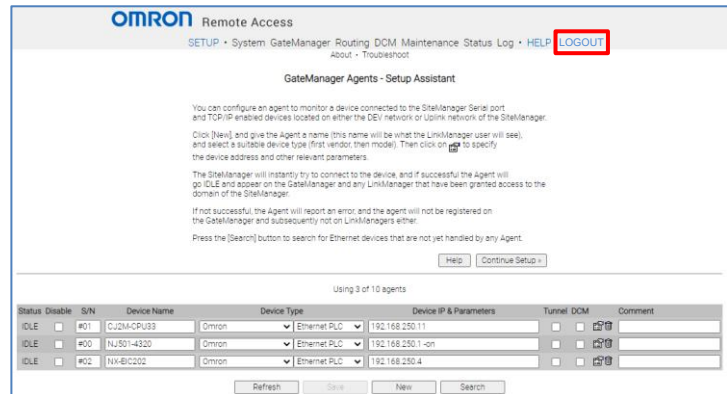
Refresh **New** Search

- 4** The agent for the device is configured. Check that **STARTING** is displayed in the **STATUS** Field.

*The information in the **STATUS** Field varies with the status of Controller.



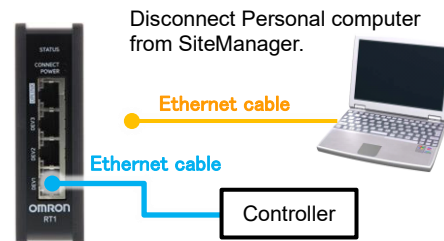
- 5** Click **Logout** on the menu bar to log out of SiteManager.



- 6** Turn OFF SiteManager.

- 7** Disconnect Personal computer used for SiteManager Setup from SiteManager.

*If only one DEV port is available connect DEV1 port on SiteManager and Port 1 on Controller with the Ethernet cable after disconnecting Personal computer from DEV1 port on SiteManager.



6.4. Remote Access Confirmation

Confirm remote access.

Here, confirm that an online connection between the Controller and Sysmac Studio on your personal computer can successfully be established via the internet. Make sure you install Sysmac Studio on your personal computer before proceeding. Follow the procedures in this section to install and use LinkManager for confirmation of remote access.

WARNING

By following the steps below, you can confirm that an online connection between the Controller and Sysmac Studio on your personal computer can successfully be established via the internet. When confirming the online connection, consider safety and perform the confirmation process **without connecting control devices to the Controller.**

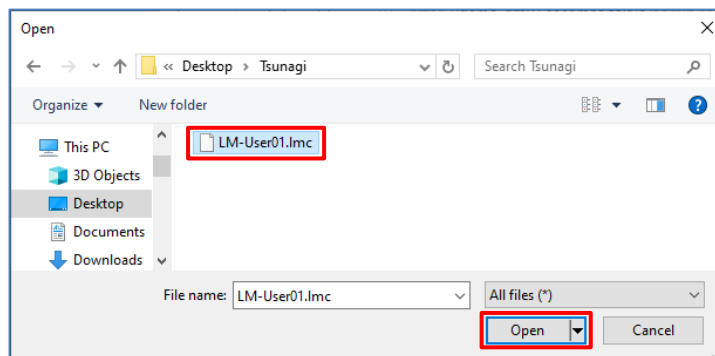


6.4.1. Login as a LinkManager User

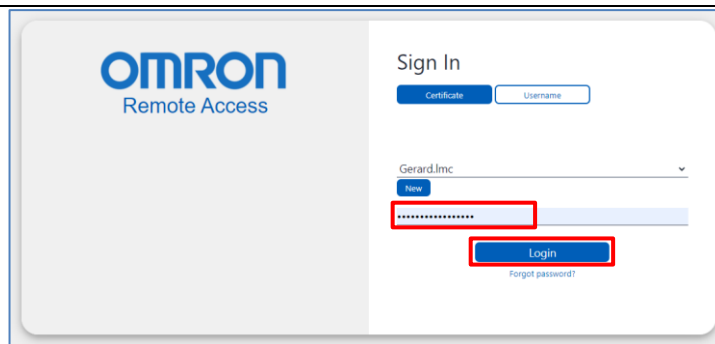
Log in to the GateManager as a LinkManager user and start the LinkManager on your personal computer.

<p>1 Open the received email with the attached Certificate, which is shown in step 4 of 6.2.3. <i>Creation of LinkManager User Account</i>, and save Certificate on Personal computer.</p>	
<p>2 The URL to open the GateManager login screen for LinkManager users is provided in the email. Click the URL https://rt1-gm01.automation.omron.com/lm</p>	
<p>3 The browser starts up, and the GateManager login screen for LinkManager users appears. Select the <i>Certificate</i> Option and then Browse.</p>	

- 4** The dialog box for opening Certificate appears.
Select the Certificate saved in step 1, and click **Open**.



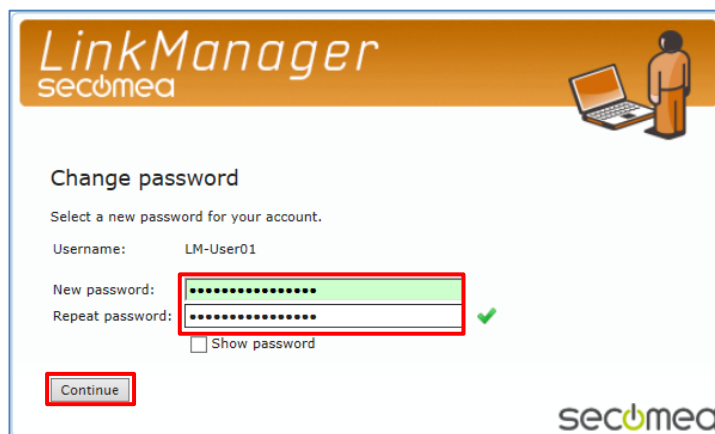
- 5** The GateManager login screen appears again.
Enter the one-time password (provided in the email in step 1) in the *Password* Field.
Click **Login**.



- 6** You are asked to change the password when you first time log in to GateManager using Certificate and one-time password provided in the email. Enter your pre-determined password in the *New password* and *Repeat password* Fields. Click **Continue**.

*It is recommended that the password include alphanumeric characters with at least 12 upper and lower case letters, numbers and special symbols such as ". ", ", ", " ? ", " ! ", " < ", " > " and " " .

*The password set here can be used the next time you log in.



The screenshot shows the 'LinkManager secomea' interface for changing a password. The title is 'Change password'. Below it, it says 'Select a new password for your account.' The 'Username' field is pre-filled with 'LM-User01'. The 'New password' field is highlighted with a green border and a green checkmark, indicating it meets requirements. The 'Repeat password' field is highlighted with a red border and a red checkmark, indicating it does not meet requirements. A 'Show password' checkbox is present. At the bottom, there is a 'Continue' button highlighted with a red border.

The color of the *New password* Field indicates the following states.

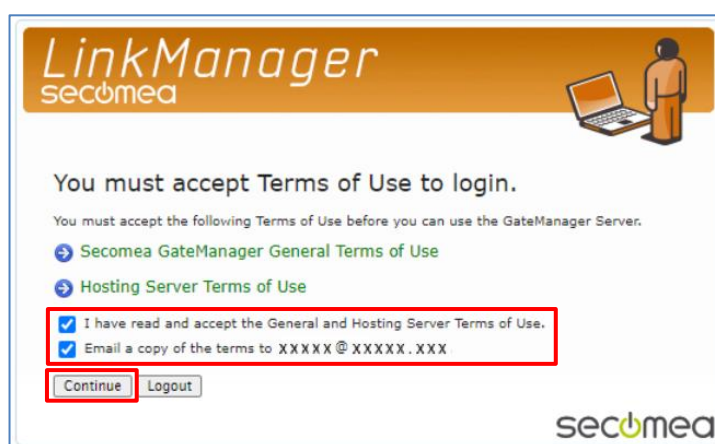
Green: Your password meets the requirements.

Yellow: Your password meets the requirements but is weak.

Red: Your password does not meet the requirements. You need to re-enter a password that meets the requirements.

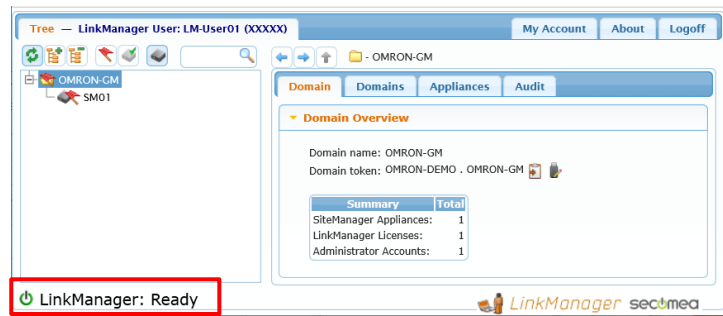
If 48 hours have passed since you received the email, the one-time password provided in the email will no longer be valid. In that case, you can get a new one-time password by following the procedure in step 6 of 6.2.2. *Password Setting for the GateManager Administrator*.


- 7** Only when you first time log in, you are asked to accept the Terms of Use as shown in the figure on the right. Select the first checkbox to accept the Terms of Use. If you wish to receive a copy of the Terms of Use via email, select the second box. Click **Continue**.

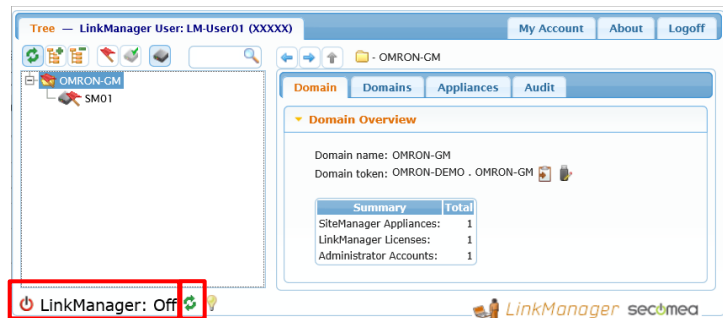


The screenshot shows the 'LinkManager secomea' interface for accepting terms of use. The title is 'You must accept Terms of Use to login.' Below it, it says 'You must accept the following Terms of Use before you can use the GateManager Server.' There are two links: 'Secomea GateManager General Terms of Use' and 'Hosting Server Terms of Use'. Below these, there are two checkboxes: 'I have read and accept the General and Hosting Server Terms of Use.' (checked) and 'Email a copy of the terms to XXXXX@XXXXX.XXX' (checked). At the bottom, there are 'Continue' and 'Logout' buttons, both highlighted with red borders.

8 The GUI screen for LinkManager users appears. If LinkManager is already installed on Personal computer and has started up, "LinkManager: Ready" is displayed on the lower left side of the screen, as shown in the figure on the right.



*If "LinkManager: Off" is displayed on the lower left side of the screen, click  displayed to the right of "LinkManager: Off". The screen on the right appears stating "LinkManager Client not running!".



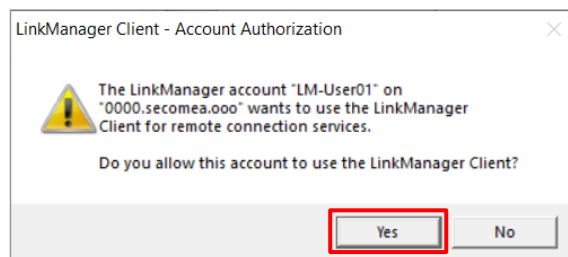
If you did not yet install LinkManager, click **Install LinkManager**.

An *.exe file will be downloaded. Activate the *.exe file and follow the setup instructions to install LinkManager.

If you already installed LinkManager, click **Start LinkManager**.

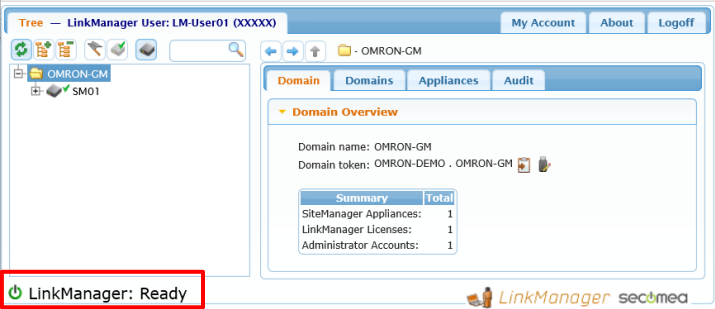
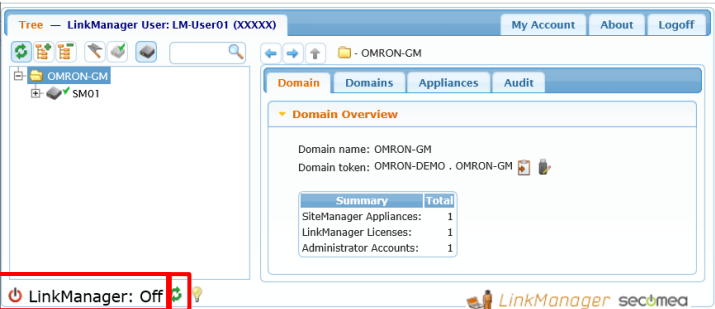
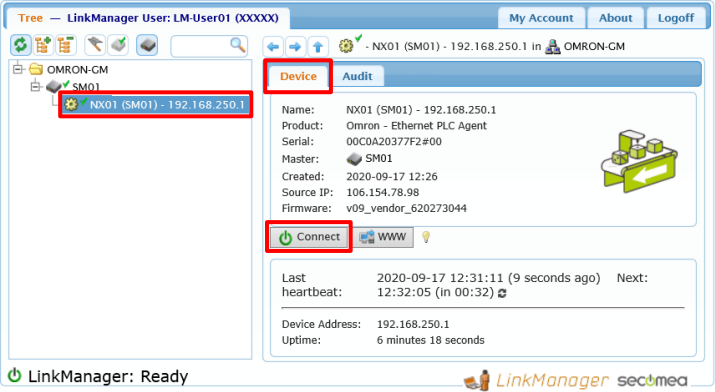
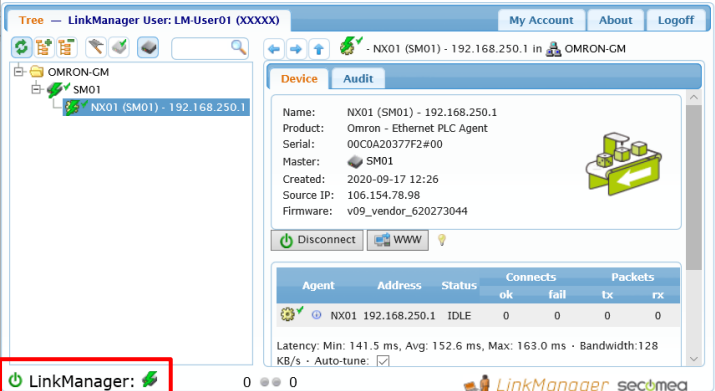


*If the dialog box for account authorization (as shown on the right) appears, confirm that there is no problem, and click **Yes**.



6.4.2. Connection Between the Personal Computer and the Controller

Connect your personal computer and the Controller.

1	Turn ON SiteManager and Controller.	
2	<p>Check that the GateManager login as a LinkManager user is completed and that "LinkManager: Ready" is displayed on the lower left side of the screen.</p> <p>*If you cannot log in to GateManager, click the URL for login as a LinkManager user, which is provided in the email in step 2 of the previous procedure.</p> <p>*If "LinkManager: Off" is displayed on the lower left side of the screen, start LinkManager by following step 8 of the previous procedure.</p>	 
3	<p>Expand the configuration tree on the left side of the screen, and select NX01 (Controller) as a target device.</p> <p>Click the Device Tab displayed on the right side of the screen, and then click Connect.</p>	
4	<p>Check that Personal computer and NX01 (Controller) are connected and that "LinkManager: [Green Arrow]" is displayed on the lower left side of the screen.</p>	


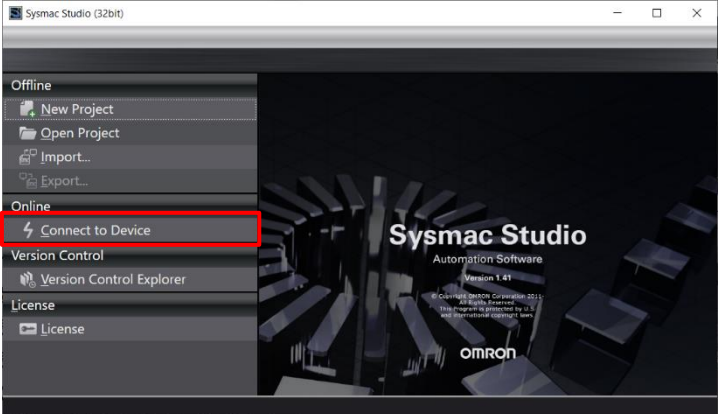
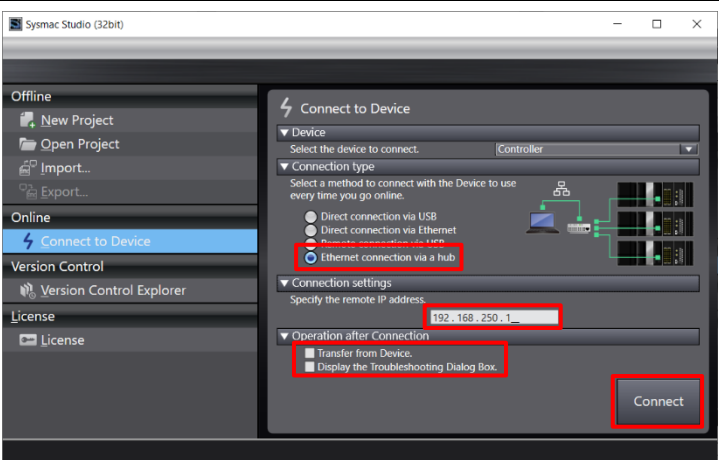
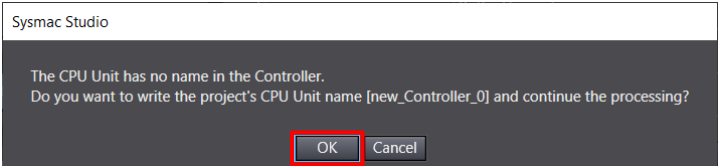
- 5** Check with the LED on SiteManager that communication between Personal computer and SiteManager is established.



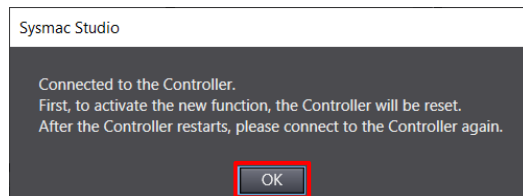
- CONNECT: On GREEN

6.4.3. Sysmac Studio Online Connection

Start Sysmac Studio and go online with the Controller.

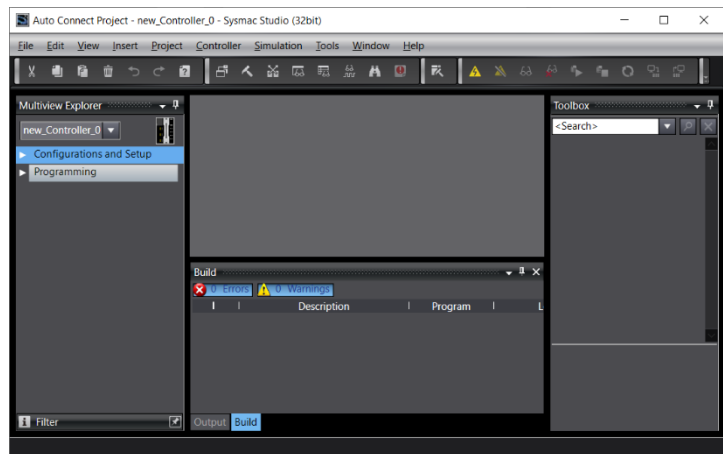
<p>1 Start Sysmac Studio.</p> <p>*If the User Account Control Dialog Box appears at start, make a selection to start Sysmac Studio.</p>	
<p>2 Sysmac Studio starts up. Click Connect to Device.</p>	
<p>3 The Connect to Device Screen appears. Select <i>Ethernet connection via a hub</i> in the <i>Connection type</i> Field. Set the IP address of the connection destination to <i>192.168.250.1</i> in the <i>Connection settings</i> Field. Uncheck the boxes for both <i>Transfer from Device</i> and <i>Display the Troubleshooting Dialog Box</i> in the <i>Operation after Connection</i> Field. Click Connect.</p>	
<p>4 If Controller is in the factory default settings, the dialog box on the right appears. Check the message and click OK.</p> <p>*The message of the dialog box varies with the status of Controller. Check the message and click on an appropriate button to proceed with the processing.</p>	

- 5** If the dialog box on the right appears, check the message and click **OK**.
Controller restarts.

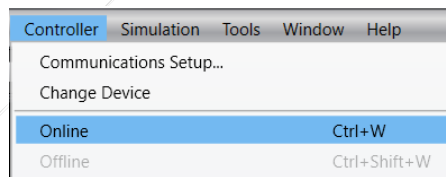


*The message of the dialog box varies with the status of Controller. Check the message and click on an appropriate button to proceed with the processing.

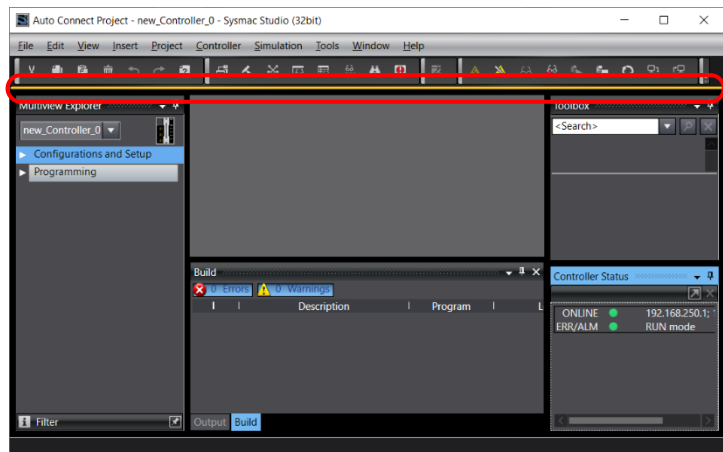
- 6** The Auto Connect Project Dialog Box appears showing offline status.



- 7** Check that the Controller startup is completed. Select **Online** from the Controller Menu.



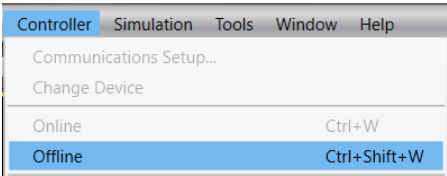
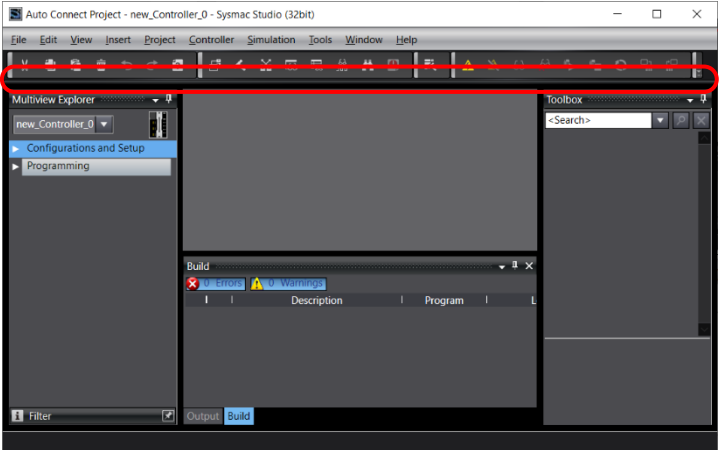
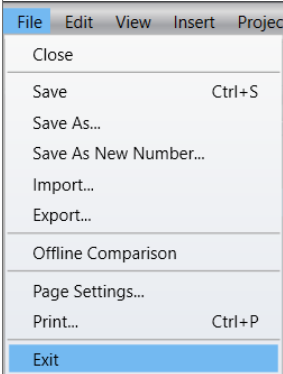
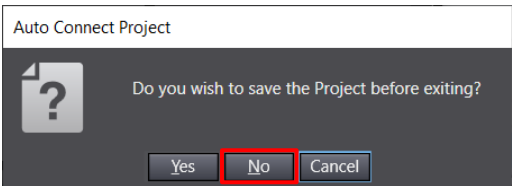
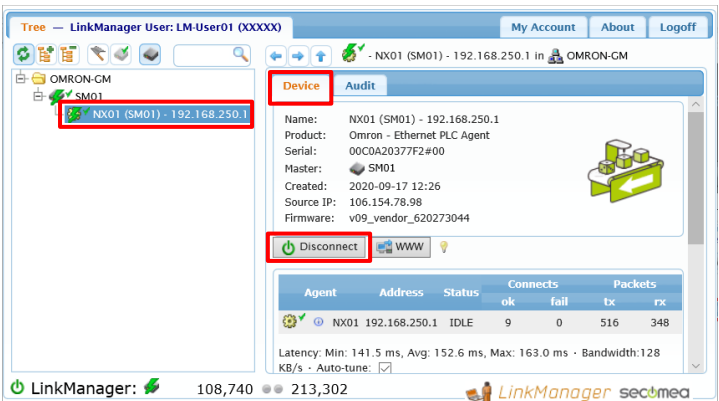
- 8** The Auto Connect Project Dialog Box shows online status. When an online connection is established, a yellow line appears under the toolbar.



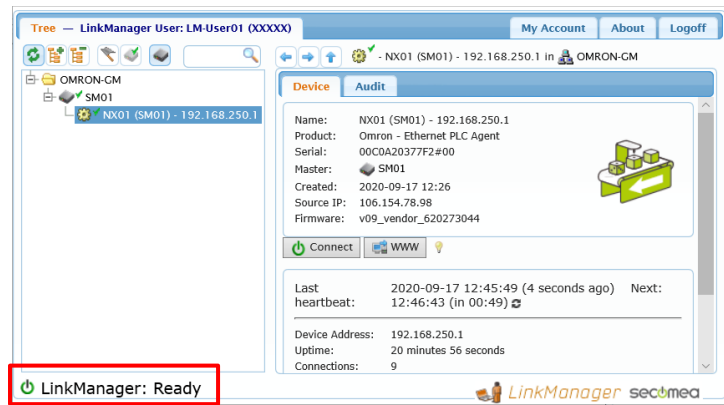
*With Sysmac Studio on Personal computer, you can see that Controller and Sysmac Studio are successfully connected online by remote access via the internet.

6.4.4. LinkManager User Logoff

Exit Sysmac Studio and log off the LinkManager user.

<p>1 Select Offline from the Controller Menu in Sysmac Studio.</p>	
<p>2 The yellow line under the toolbar disappears indicating that Controller goes offline.</p>	
<p>3 Select Exit from the File Menu.</p>	
<p>4 The dialog box on the right appears. Check the message and click No.</p> <p>*Sysmac Studio closes.</p>	
<p>5 In the configuration tree displayed on the left side of the GUI screen for LinkManager users, check that NX01 (Controller) as a target device is selected.</p> <p>Click the Device Tab on the right side of the screen, and then click Disconnect.</p>	

- 6** Check that the connection between Personal computer and NX01 (Controller) ends and that "LinkManager: Ready" is displayed on the lower left side of the screen.



- 7** Check with the LED on SiteManager that communication between Personal computer and SiteManager is cut off.

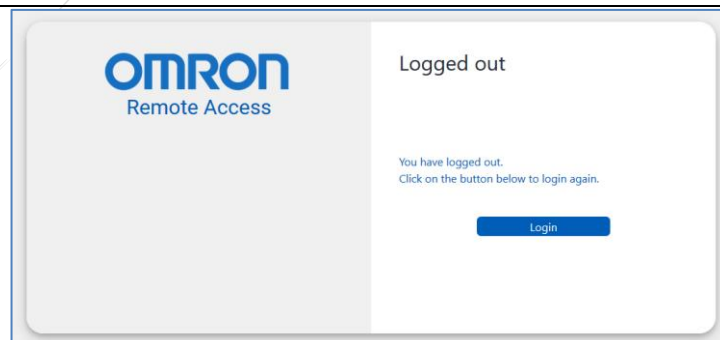


- CONNECT: Not lit

- 8** Click **Logoff** on the right side of the screen.



- 9** The Logged out screen appears.
The LinkManager user is logged out.



7. Initialization Method

This guide assumes that each device is in the factory default settings.

Some procedures may not be applicable unless you use the devices with the factory default settings.

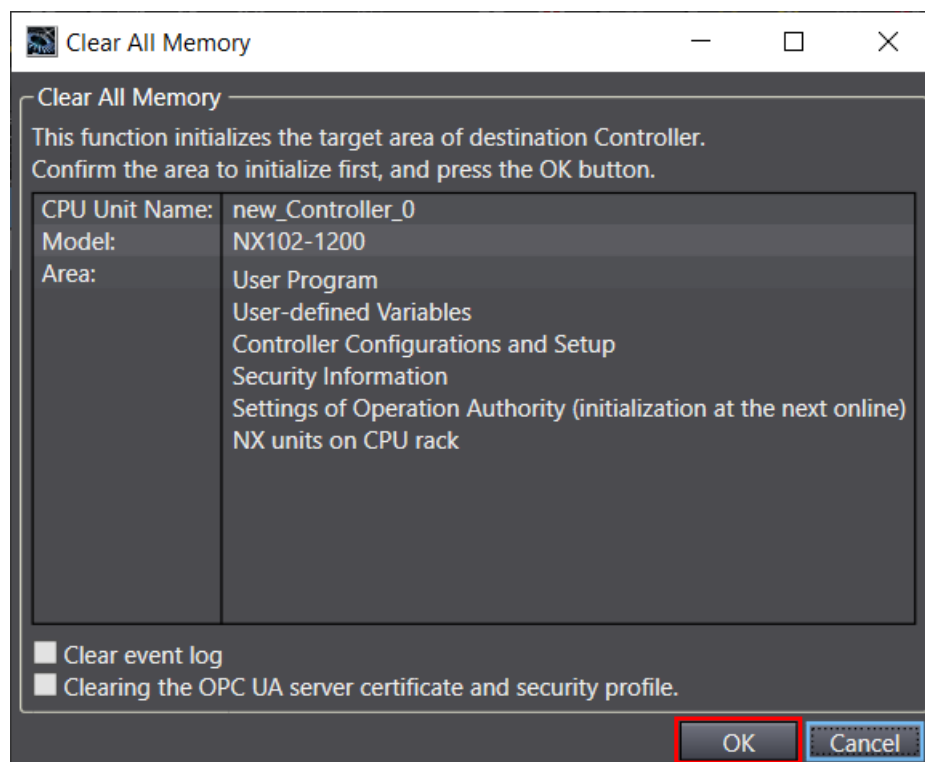
7.1. Controller Initialization

To initialize a Controller, clear all memory of a CPU Unit.

Connect Controller and Personal computer to place Sysmac Studio online.

With Sysmac Studio, change the operating mode of Controller to PROGRAM mode and select **Clear All Memory** from the Controller Menu.

The Clear All Memory Dialog Box appears. Check the message and click **OK**.



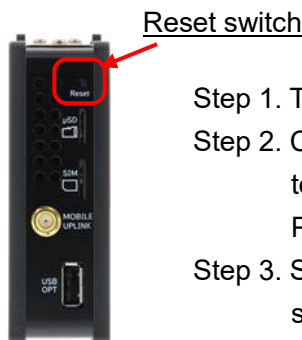
7.2. SiteManager Initialization

The following describe how to initialize a SiteManager by using the Reset switch.



Precautions for Correct Use

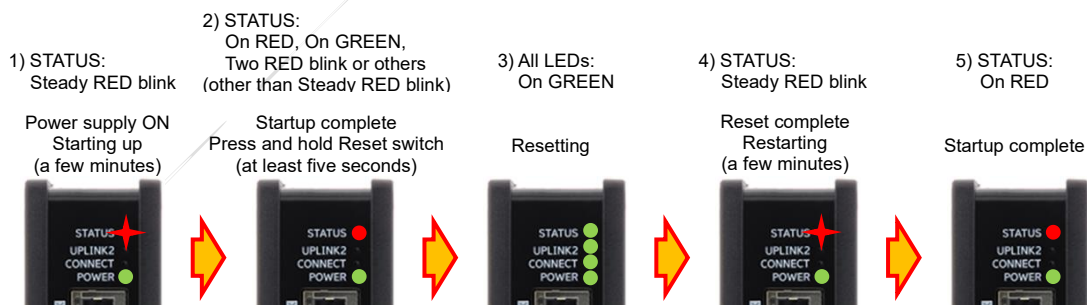
Do not use the Reset switch during the SiteManager startup (the STATUS LED is Steady RED blink). Otherwise, the initialization may not be performed normally.



Front view of the RT100-W5M3010 model

- Step 1. Turn ON SiteManager and wait for a few minutes.
- Step 2. Check that the STATUS LED changes from Steady RED blink to On RED, On GREEN, Two RED blink or others.
Press and hold Reset switch for at least five seconds.
- Step 3. SiteManager is initialized to factory defaults, and the reboot starts.
- Step 4. Wait a few minutes for the reboot to complete.
- Step 5. The initialization is completed when the STATUS LED changes from Steady RED blink to On RED.

By pressing Reset switch, the STATUS LED changes as follows:



8. Revision History

Revision code	Date of revision	Description of revision
01	November 2020	First release
02	November 2021	Updated screens Updated product images Minor changes

