

CipherLab

User Guide

TE License Server

For Android 6.0 or later with GMS Certificated

RS31

RS35

RS36

RS50

RS51

HERA51

RK25

RK95

Version 1.1.2



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CIPHERLAB CO., LTD.

Website: <http://www.CipherLab.com>

RELEASE NOTES

Version	Date	Notes
1.1.2	Jan. 12 th , 2023	• Initial release

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INTRODUCTION

This manual provides a detailed introduction of **TE License Server**'s setup and usage. **TE License Server** is a web system that coworks with **Terminal Emulation**, another App developed by CipherLab, to assign Android Terminal Emulation License to the user's Android mobile computers. Working between the server and mobile computers, **TE License Server** does not only allow the user to quickly review the license information, but also provide the user with an efficient way to arrange the license settings.

For more details about **Terminal Emulation**, refer to [Terminal Emulation User Guide](#).

For Terminal Emulation License consultation, please [contact the local sales representative](#).

FEATURES

- Simple and easy installation and activation.
- Password protection that helps keep the data safe from unauthorized access.
- Clear and concise user interface for the user to easily navigate through the system features.

Chapter 1

SETUP

This chapter guides the user to go through the installation of TE License Server.

1.1 INSTALL CIPHERLAB TE LICENSE SERVER ON PC

1.1.1 PREREQUISITE

Before you download and install TE License Server, check if TE License Server supports your operating system and you have all the other system requirements.

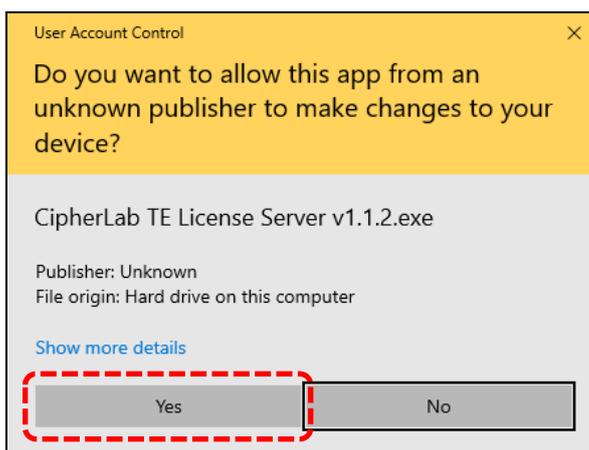
- The requirements for operating **TE License Server**:
 - 1) A Windows PC with TE License Server installed.
 - 2) An Android mobile computer with Terminal Emulation App installed.

- The system requirements for the PC to install **TE License Server**:
 - 1) Operating system:
Windows Server 2012 R2, Windows 10, or higher with latest updates installed.
 - 2) Memory: At least 8 GB RAM.
 - 3) Storage: At least 460.9 MB of free disk space

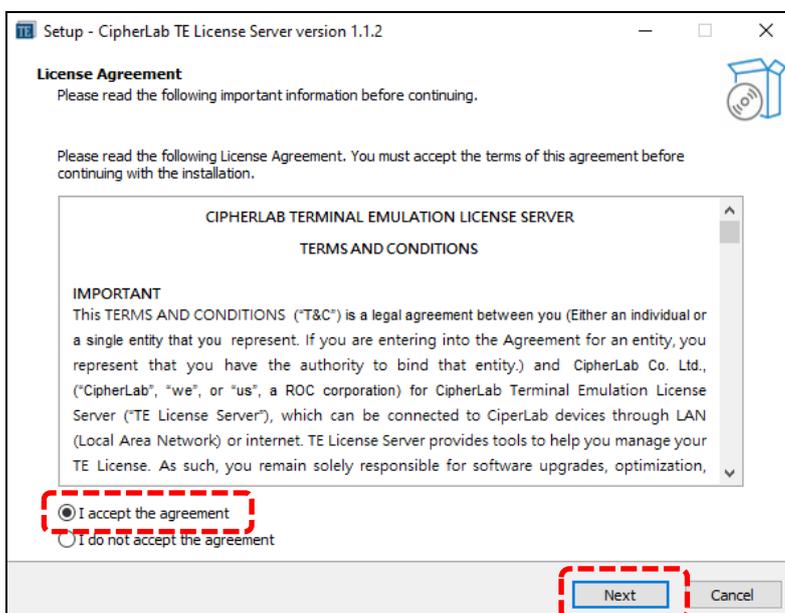
- The system requirements for the mobile computer to install **Terminal Emulation App**:
 - 1) Operating system:
Android 6.0 or higher versions.

1.1.2 HOW TO INSTALL TE LICENSE SERVER

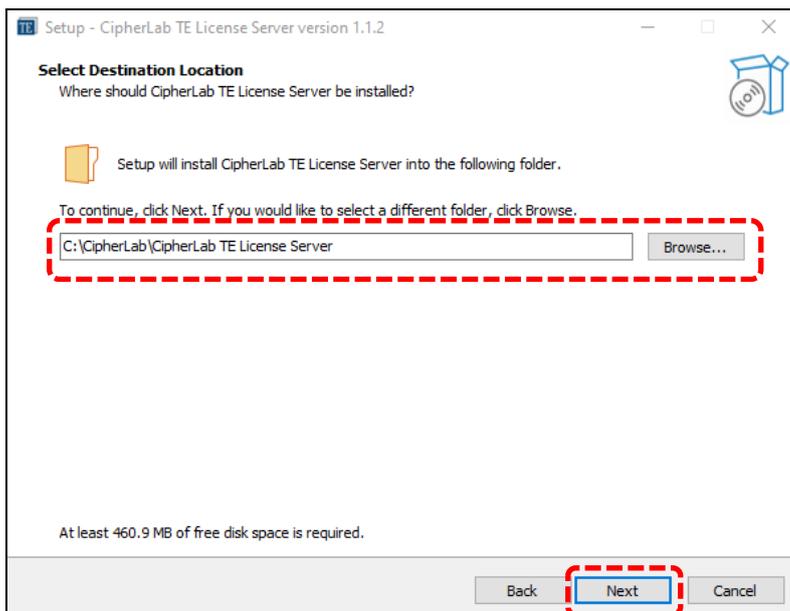
1. Download the installation file from CipherLab's website:
(<https://www.cipherlab.com/en/product/Software>)
2. If prompted, click **"Run"** or **"Save"**.
When you choose **"Save"**, either double-click the download or click **"Open file"** to start installation.
3. If you're asked, "Do you want to allow this app from an unknown publisher to make changes to your device?", click **"Yes"**.



4. Select **"I accept the agreement"** and click **"Next"** to proceed.



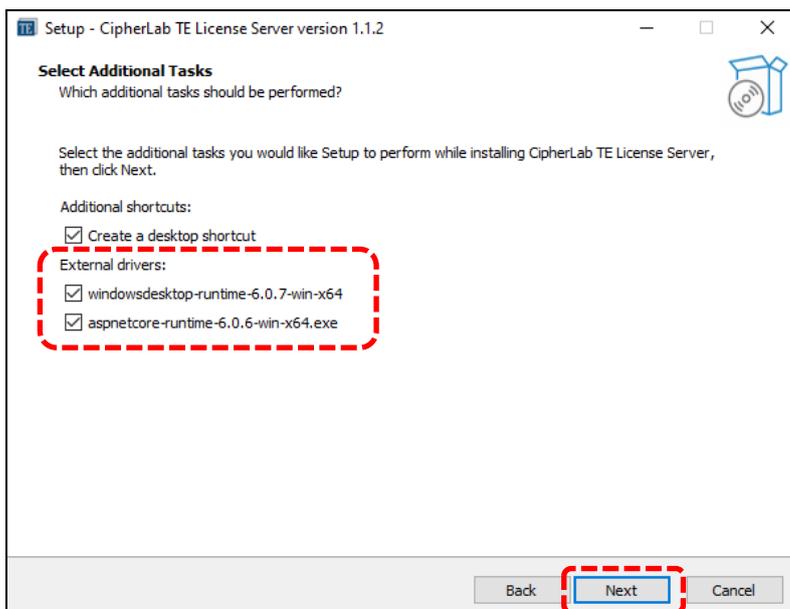
5. Select a folder for installation and click “Next” to proceed.



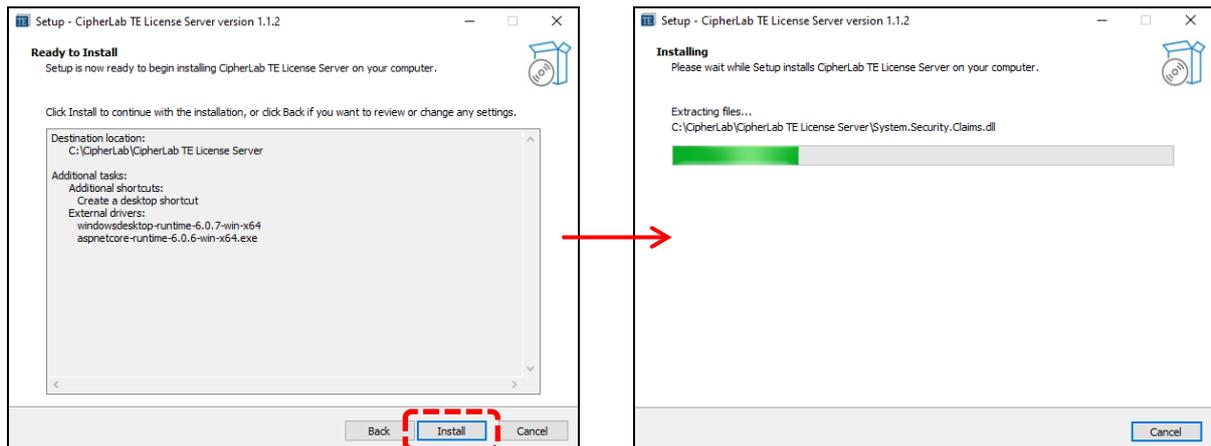
6. The Setup Wizard will provide two device drivers for the user to install.

Note that both “.NET Windows Desktop Runtime 6.0.7” and “ASP.NET Core 6.0.6” are required for operating TE License Server. While “.NET Desktop Runtime” enables you to run existing Windows desktop applications, “ASP.NET Core” enables you to run existing web and server applications.

Therefore, **select both** and click “Next” to proceed.

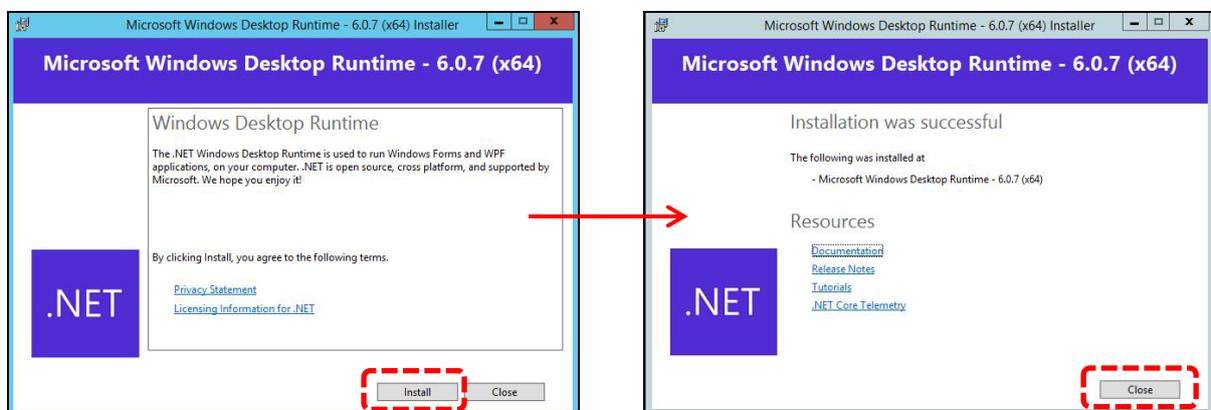


7. Click "Install". The process will be done in a while.



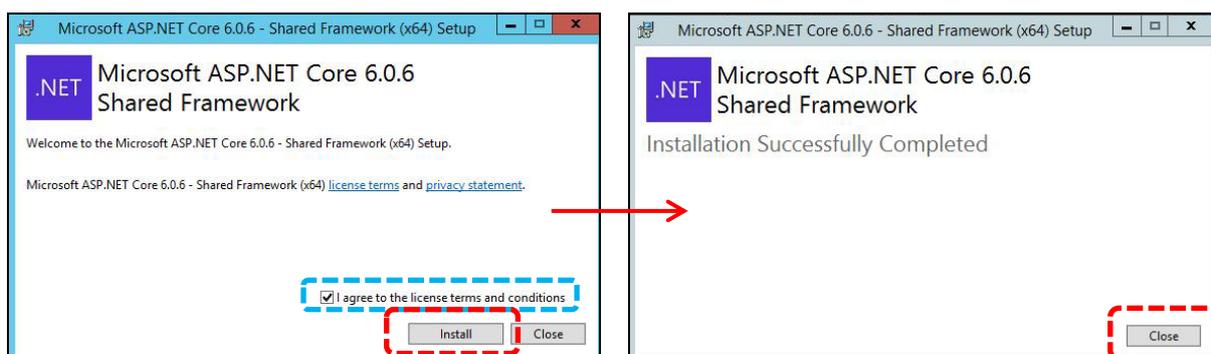
8. Click "Install" to start installing the first device driver, ".NET Windows Desktop Runtime 6.0.7".

After the installation is completed, click "Close" to proceed.

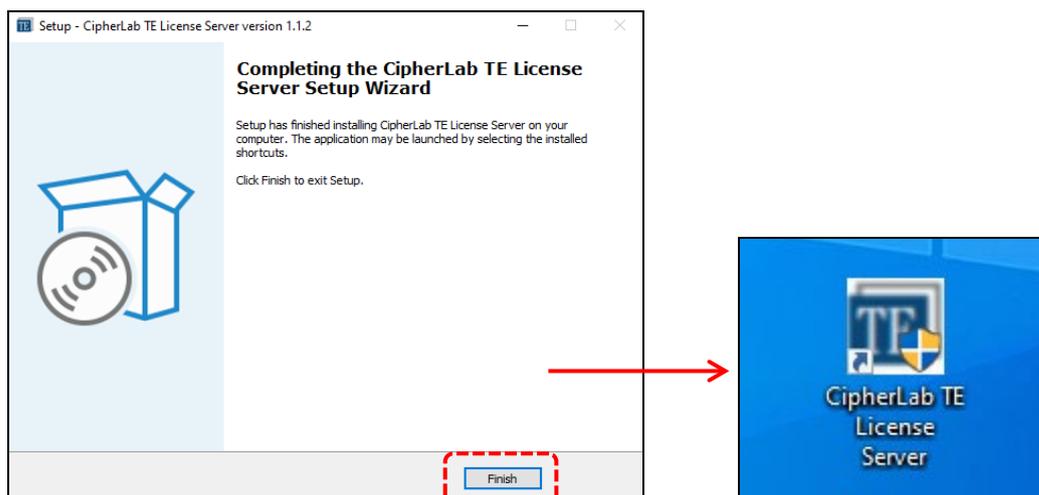


9. Select "I agree to the license terms and conditions" and click "Install" to start installing the second device driver, "ASP.NET Core 6.0.6".

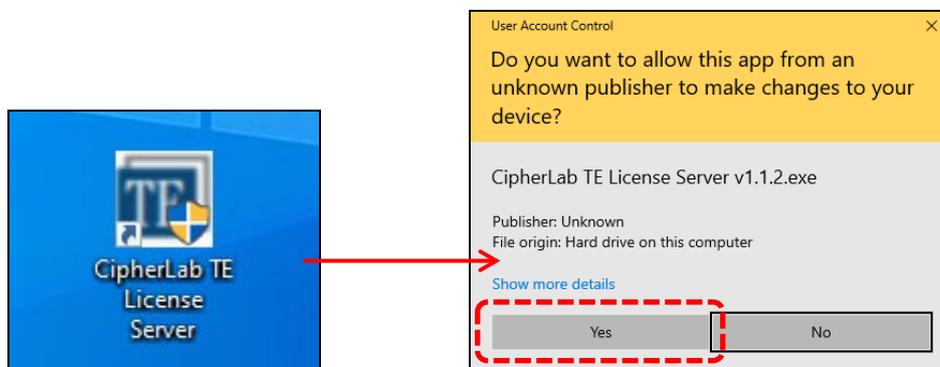
After the installation is completed, click "Close" to proceed.



10. After the installation is completed, click "Finish" to exit the Setup Wizard. The shortcut of TE License Server will appear on the desktop.



11. Double-click the shortcut to launch TE License Server. Click "Yes" if you're asked, "Do you want to allow this app from an unknown publisher to make changes to your device?".



12. Seeing the home page means that TE License Server has been successfully installed.



Chapter 2

LICENSE SETTINGS

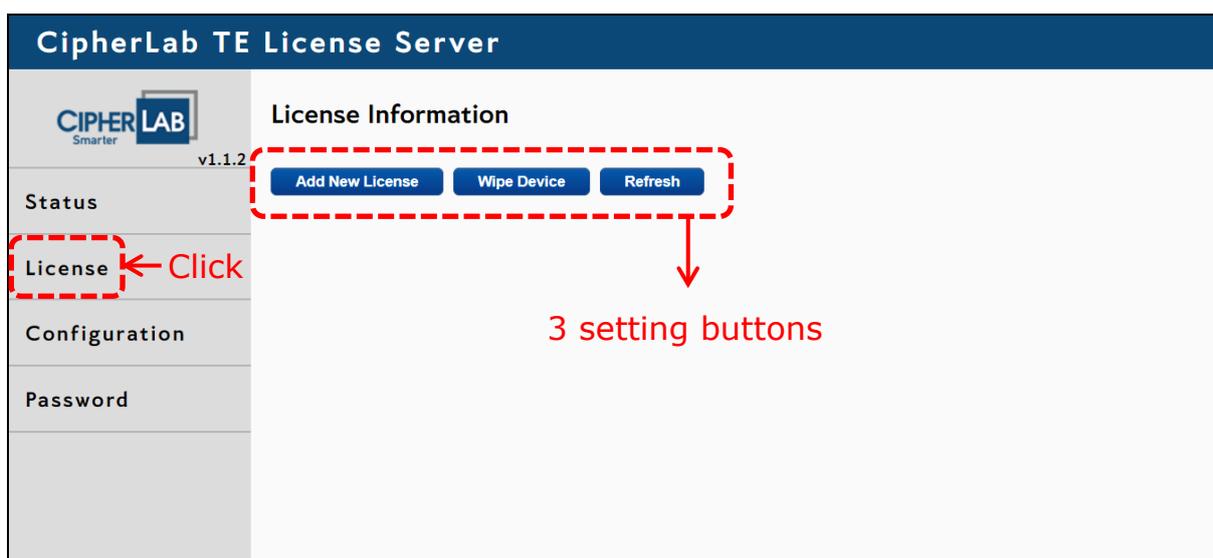
This chapter carries the introduction of how to add a license list, to assign license, to wipe device, and to delete a license list.

2.1 ADD NEW LICENSE

INTRODUCTION OF “LICENSE INFORMATION” PAGE

The “**License Information**” page allows the user to perform various administrative tasks, including adding new license settings, assigning license to devices, wiping devices, eliminating license settings, and receiving the most recent data of license.

Click “**License**” to enter the “**License Information**” page, and there will be 3 setting buttons, including “Add New License”, “Wipe Device”, and “Refresh”.



The functions of the three setting buttons on the “**License Information**” page:

Setting Button	Description
Add New License	To import new license settings.
Wipe Device	To import the deletion settings for certain devices.
Refresh	To update and receive the latest data of license.

TO APPLY FOR LICENSE SETTING FILE

First things first, please [contact CipherLab](#) and provide us with the following information. We will send you the file for importing new license settings on TE License Server.

- The required information:

1) Company Name:

The name of your company.

2) Server ID:

The unique identifier for the Server.

Access "**Status**" > "**Status Overview**" to check your Server ID.

The screenshot displays the 'CipherLab TE License Server' interface. On the left, there is a navigation menu with 'Status' selected. The main content area shows the 'Status Overview' for the server. The 'Server ID' is highlighted with a red dashed box and is followed by a 'copy' button. Other details include IP, Port, Computer Name, Software Version, License Quantity, and License Assigned percentage.

Field	Value
Server ID	B0F7F7B6C0B19AAB3D9135D27046FEA4E56A0D9A copy
IP	192.168.243.73
Port	5000
Computer Name	CNBK000262
Software Version	1.1.2
License Quantity	0
License Assigned	0%

3) Site ID:

A unique identification number allocated to your license. You may choose a number between 0 and 9999 to be the Site ID.

The default Site ID will be 0 if the user leaves this field blank.

Note that the Site IDs for different TE Licenses must not be the same.

4) License Quantity:

The total amount of the devices that the user is allowed to perform license assignment. The quantity will be limited or unlimited according to different license types that the user bought.

Please [contact the local sales representative](#) for TE License consultation.

5) Days of Use:

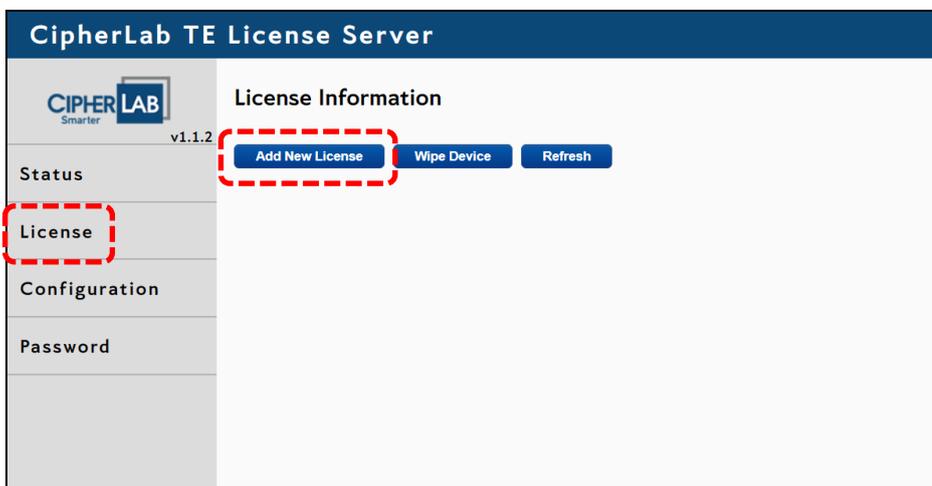
To decide the expiration period for the license.

TO IMPORT NEW LICENSE SETTINGS

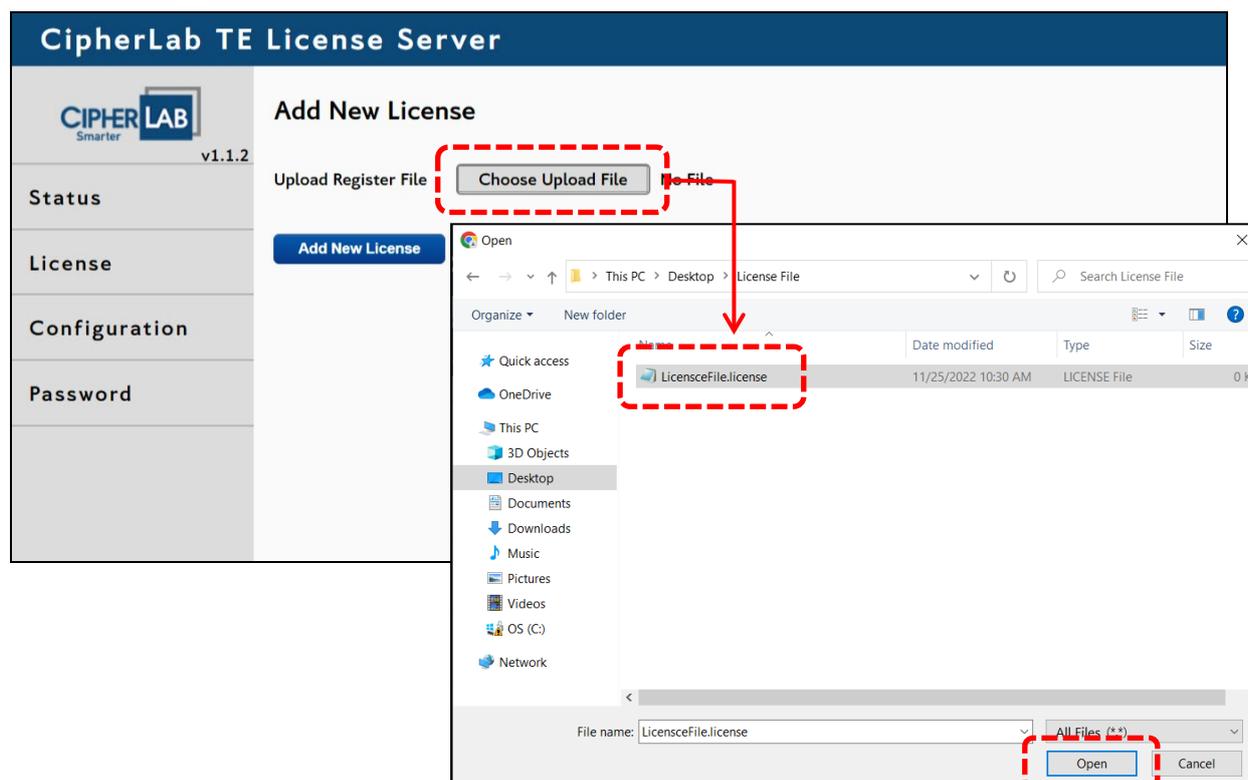
CipherLab will provide a **.license** file  for the user to import license settings.

After received the license setting file, follow the steps to import new license settings:

1. Click "License" to enter the "License Information" page.
2. Click the "Add New License" button.

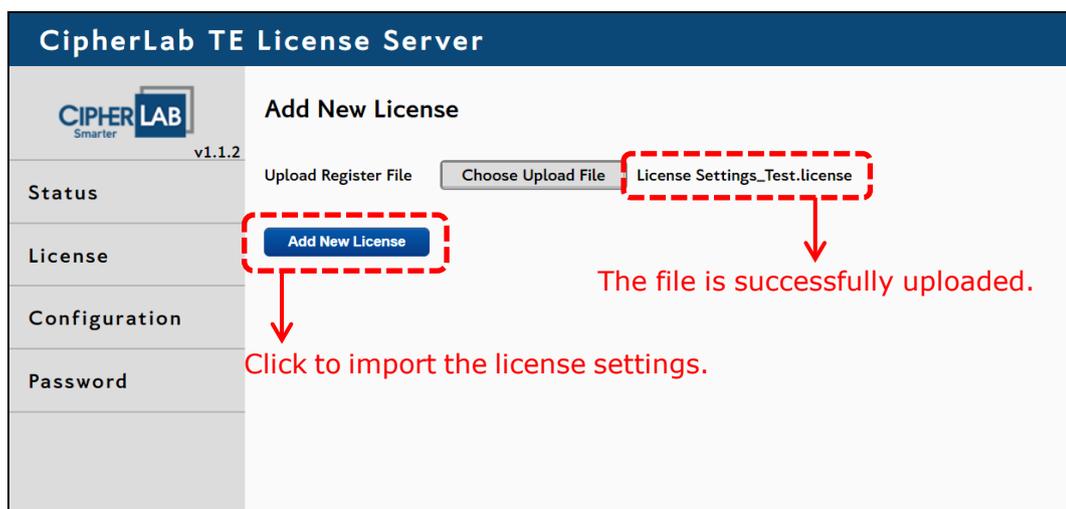


3. Click the "Choose Upload File" button on the "Add New License" setting page.
Next, select and open the **.license** file sent from CipherLab for uploading.



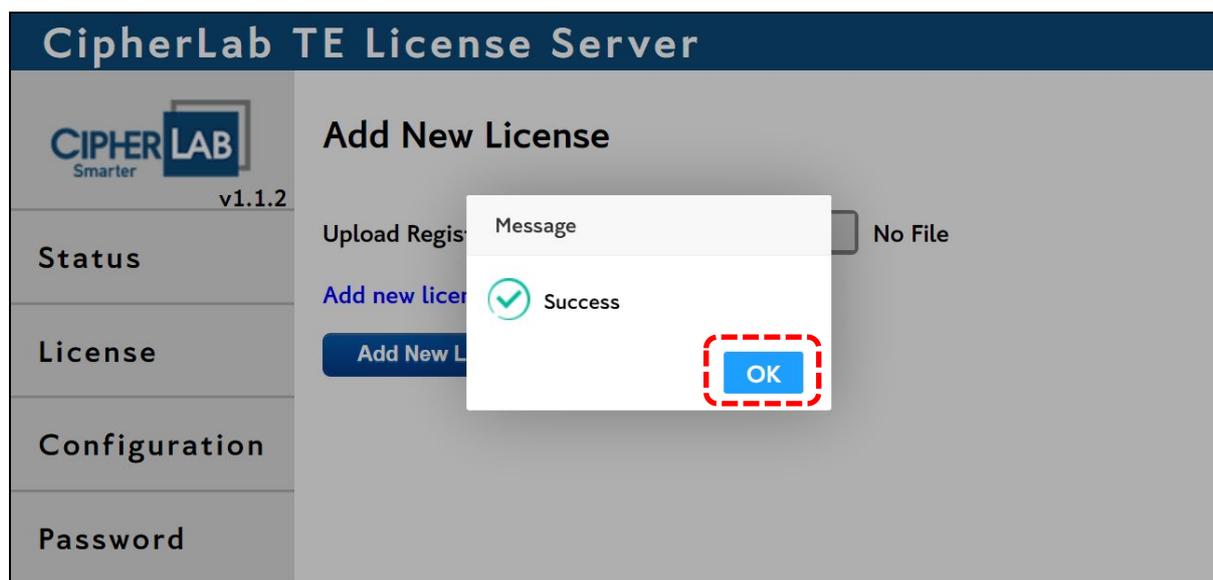
- When the file name is displayed next to the "Choose Upload File" button, the license file is successfully uploaded and ready to be imported.

Click the "Add New License" button to import the uploaded license setting file.



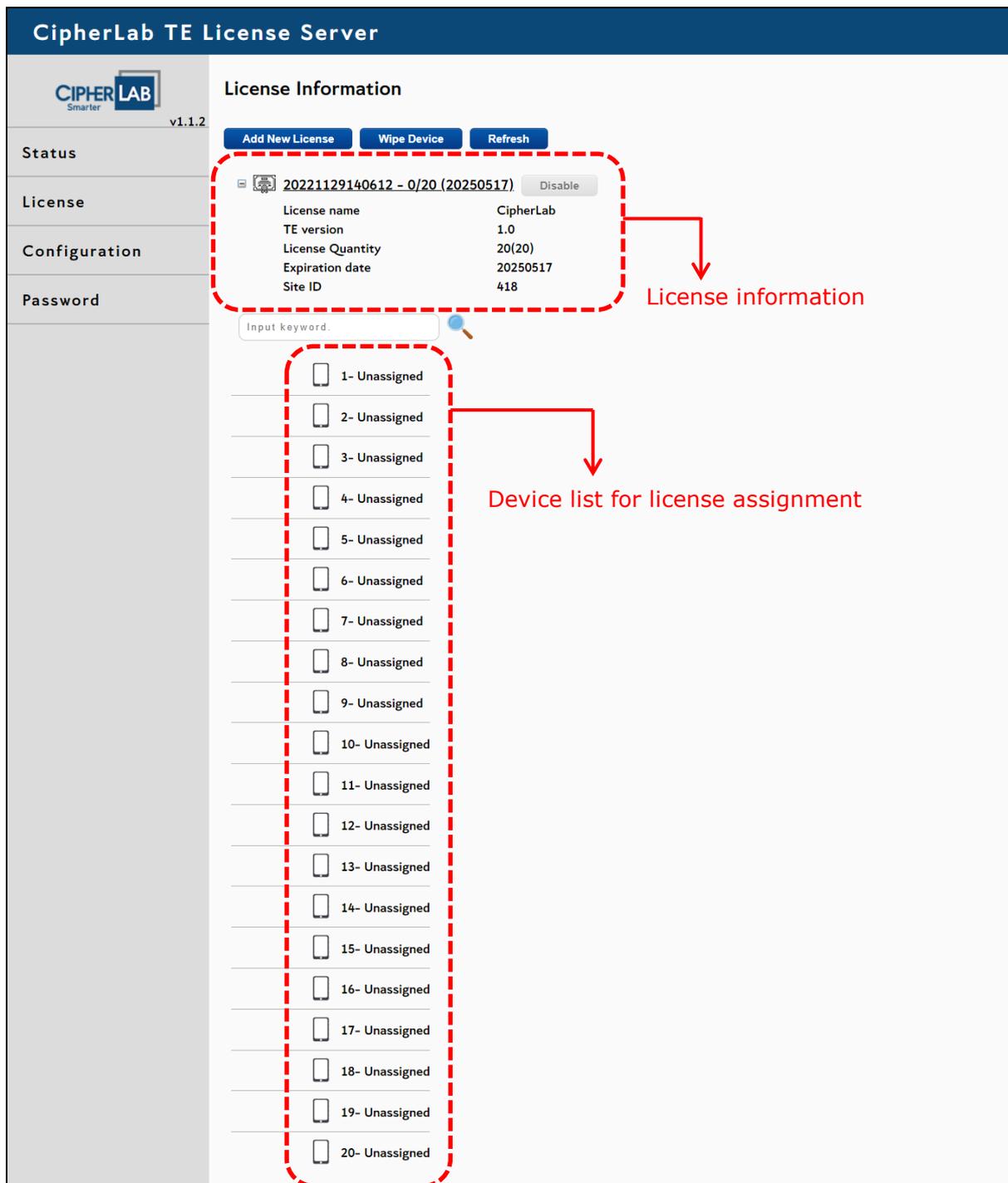
- When the file is successfully imported, a pop-up window will appear to notify the user of the completion.

Click "OK" to close the pop-up window, and the user will be redirected to the "License Information" page.



6. The imported license settings will be demonstrated on the "License Information" page, and the list of license assignment will appear.

For more details about license assignment, refer to [License Management](#). 



The screenshot displays the 'CIPHERLAB TE License Server' interface. On the left is a sidebar with navigation options: Status, License, Configuration, and Password. The main area is titled 'License Information' and contains three buttons: 'Add New License', 'Wipe Device', and 'Refresh'. Below these buttons, a license entry is shown with a 'Disable' button. The license details are as follows:

License name	CipherLab
TE version	1.0
License Quantity	20(20)
Expiration date	20250517
Site ID	418

Below the license information is a search bar labeled 'Input keyword.' and a list of 20 unassigned devices, each represented by a mobile phone icon and the text 'X- Unassigned', where X ranges from 1 to 20. Red dashed boxes and arrows highlight the license information and the device list.

2.2 LICENSE MANAGEMENT

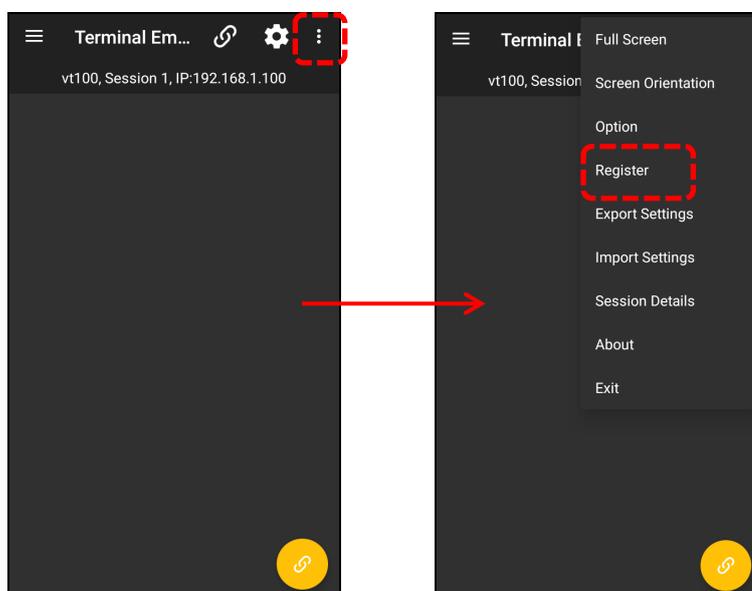
2.2.1 ASSIGN LICENSE TO DEVICE

TE License Server is designed to serve a pool of floating licenses to Android mobile computers with CipherLab Terminal Emulation App installed.

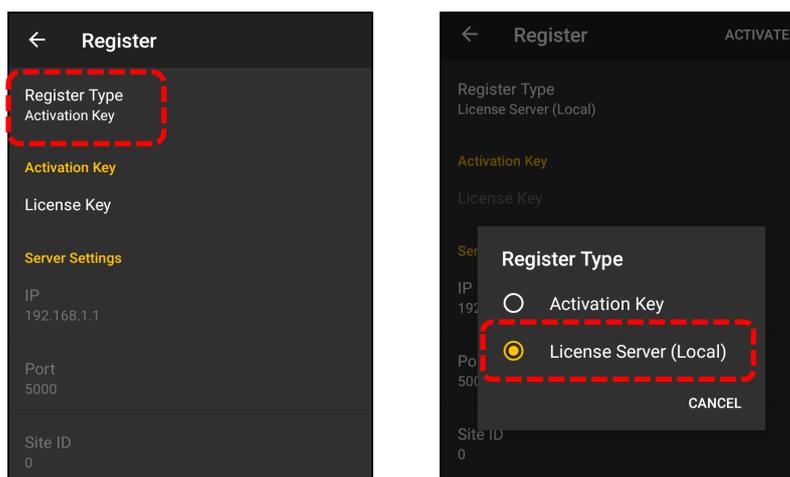
- The minimum requirements for performing license assignment:
 1. The Server and the device must have the same Domain networks settings.
 2. The device has CipherLab Terminal Emulation App's latest version installed.

Follow the steps to assign the license to a device:

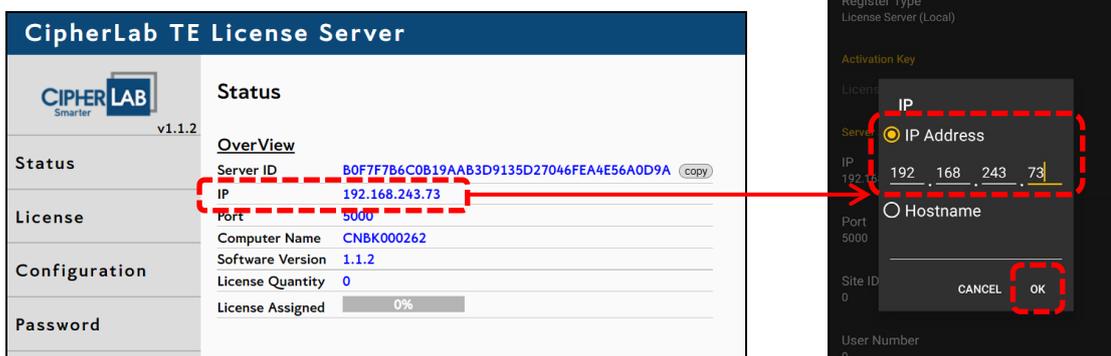
- 1) Launch CipherLab Terminal Emulation App on the device.
- 2) Click  to unfold the menu. Click "Register".



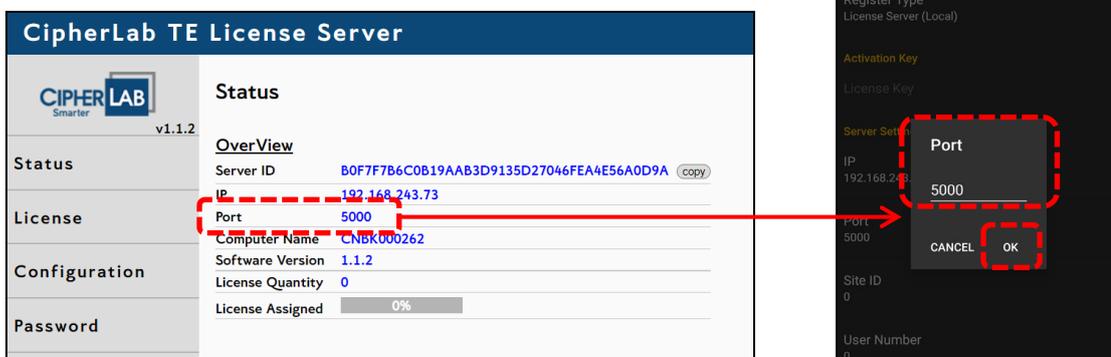
- 3) On the "Register" page, click "Register type" and select "License Server (Local)".



- Click "IP" and enter the Server's IP address. Click "OK".
You can check the Server's IP information on the "Status" page.



- Click "Port" and enter the Server's port number. Click "OK".
You can check the Server's port number on the "Status" page.



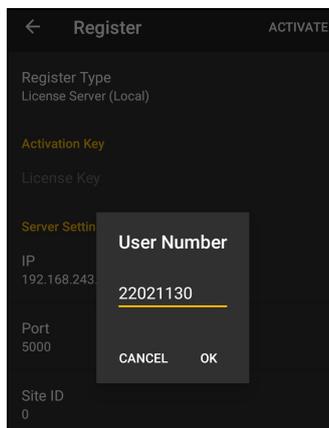
- Click "Site ID" and enter the Site ID you set for the license. Click "OK".
You can check the Site ID on the "License Information" page.



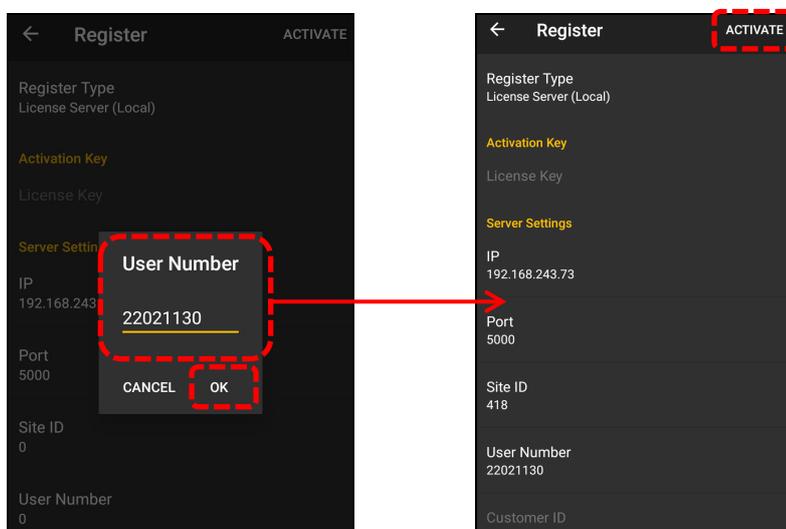
- 7) The "User Number" is a number that allows you to distinguish the devices from each other. You can choose a number from -2147483648 to 2147483647.

Each device's User Number must **not** be the same.

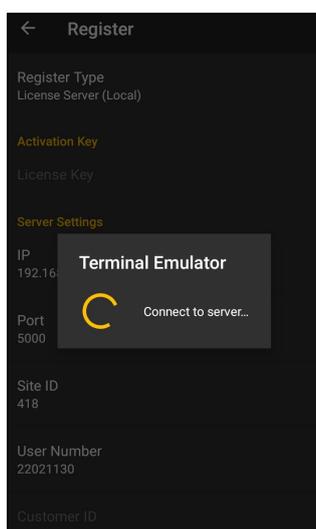
Enter a number as "User Number" and click "OK".



- 8) After filling out the required information, click "Activate" in the top-right corner.

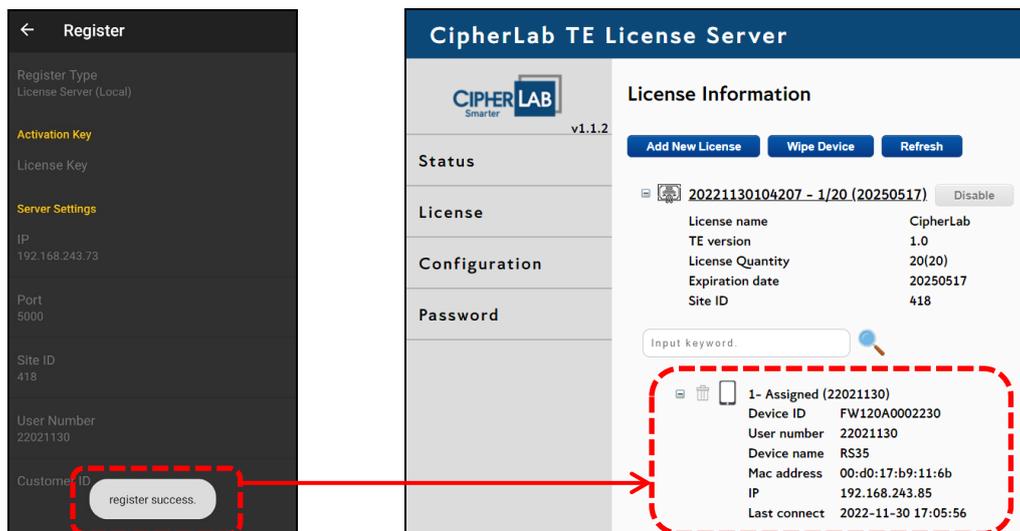


- 9) The activating process will be done in a second.



10)When the notification “register success” appears, the activation is completed.

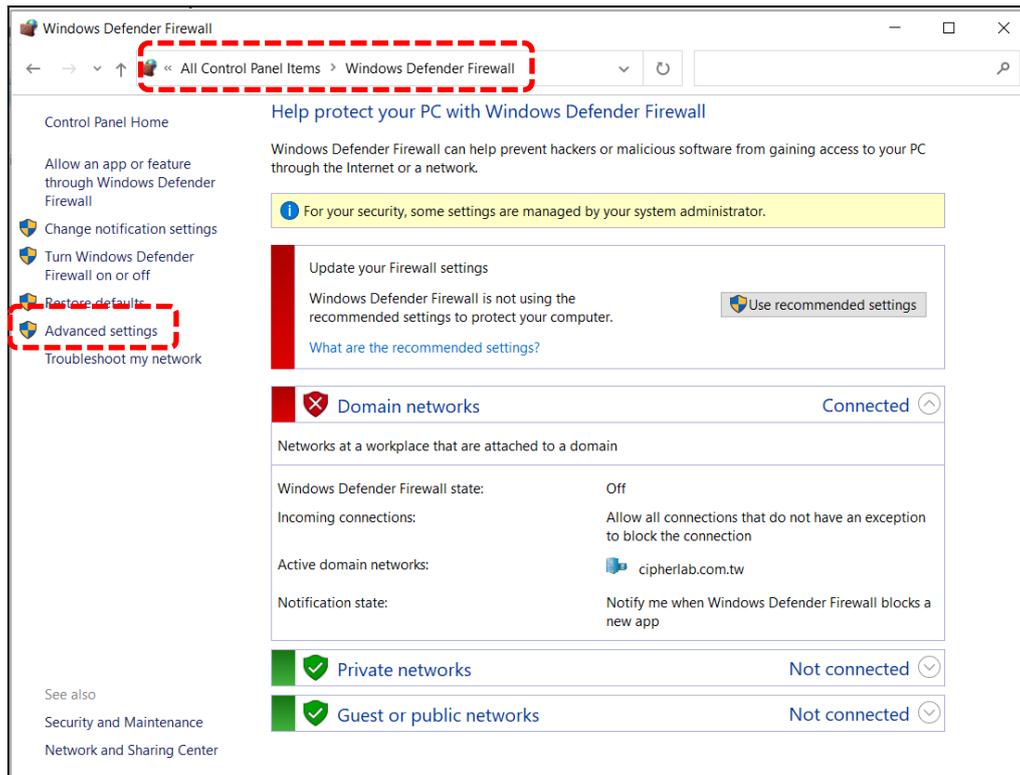
When the license is successfully assigned to the device, the information of the device will simultaneously be demonstrated on the device list on the “License Information” page.



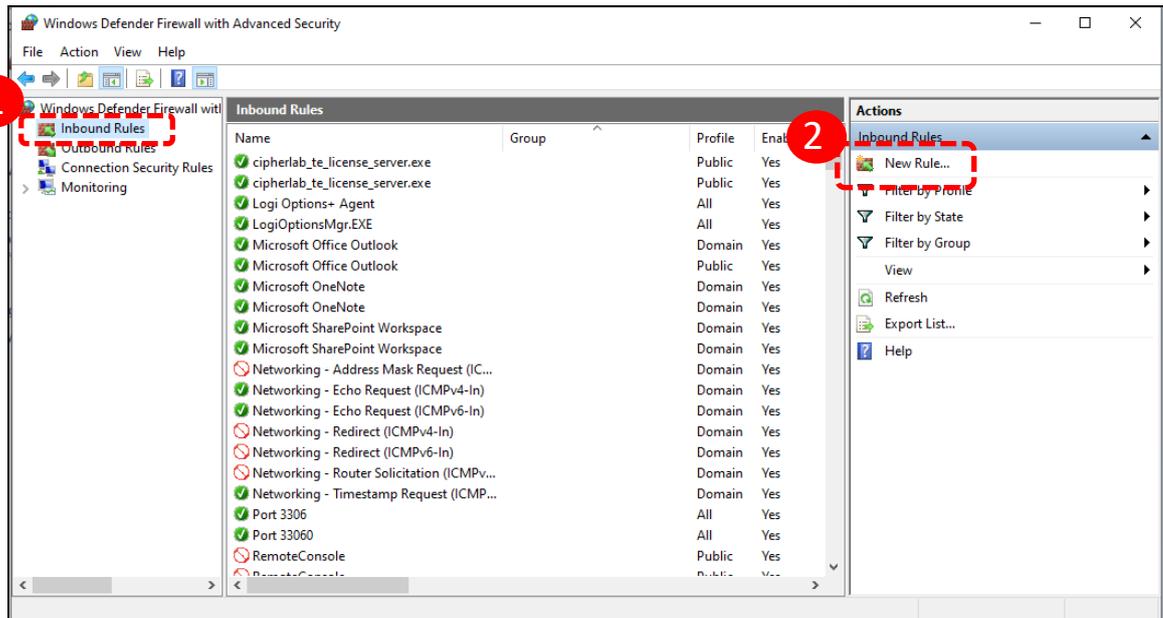
11)If failed:

1. You can change the Windows Defender Firewall settings to allow access **only** to the specified ports.

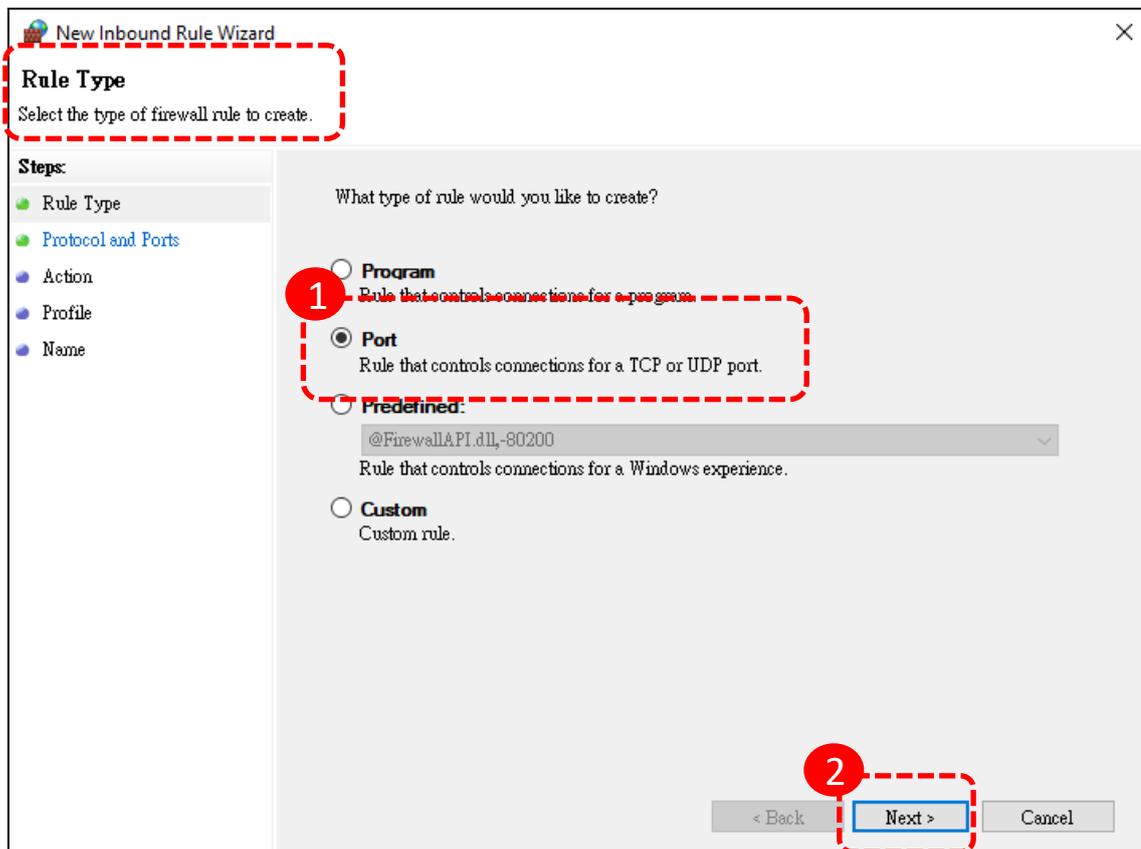
Access Control Panel > Windows Defender Firewall > Advanced settings



2. Click "Inbound Rules".
3. Click "New Rule..." on the action list for "Inbound Rules".

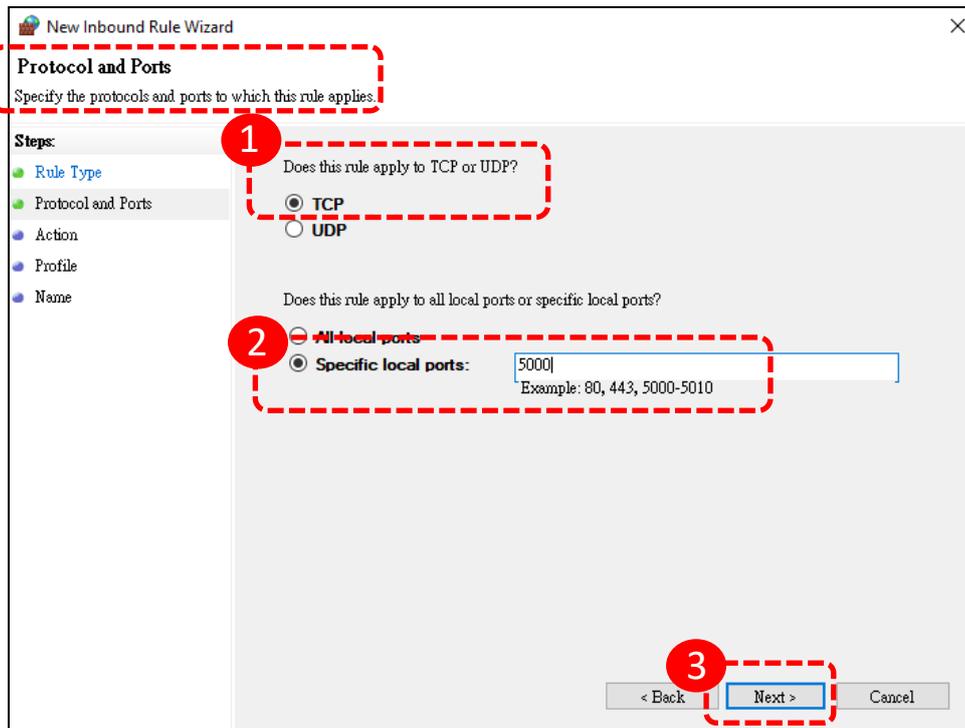


4. For "Rule Type", select "Port" and click "Next."

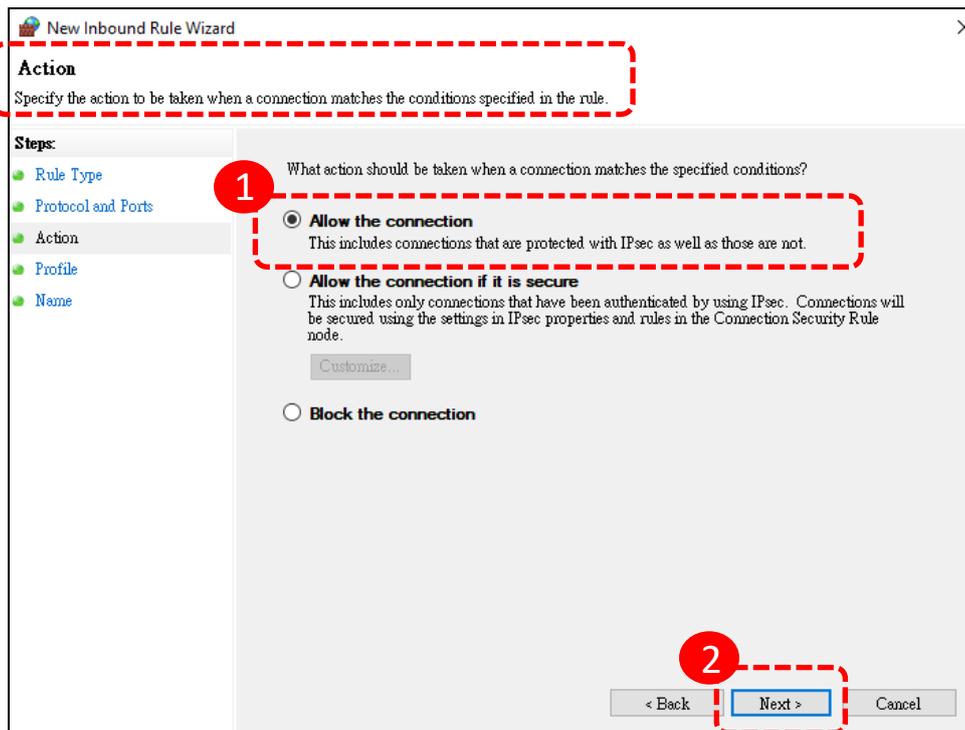


- For "Protocol and Ports", select "TCP" and enter the Server's port number in the "Specific local ports" field. Click "Next".

You can check the Server's port number on [the "Status" page](#).



- For "Action", select "Allow the connection" and click "Next".



7. For "Profile", select all, including "Domain", "Private", and "Public". Click "Next".

New Inbound Rule Wizard

Profile
Specify the profiles for which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile**
- Name

When does this rule apply?

- Domain**
Applies when a computer is connected to its corporate domain.
- Private**
Applies when a computer is connected to a private network location, such as a home or work place.
- Public**
Applies when a computer is connected to a public network location.

< Back **Next >** Cancel

8. For "Name", enter a name as a mark for this port setting. Click "Finish".

New Inbound Rule Wizard

Name
Specify the name and description of this rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name**

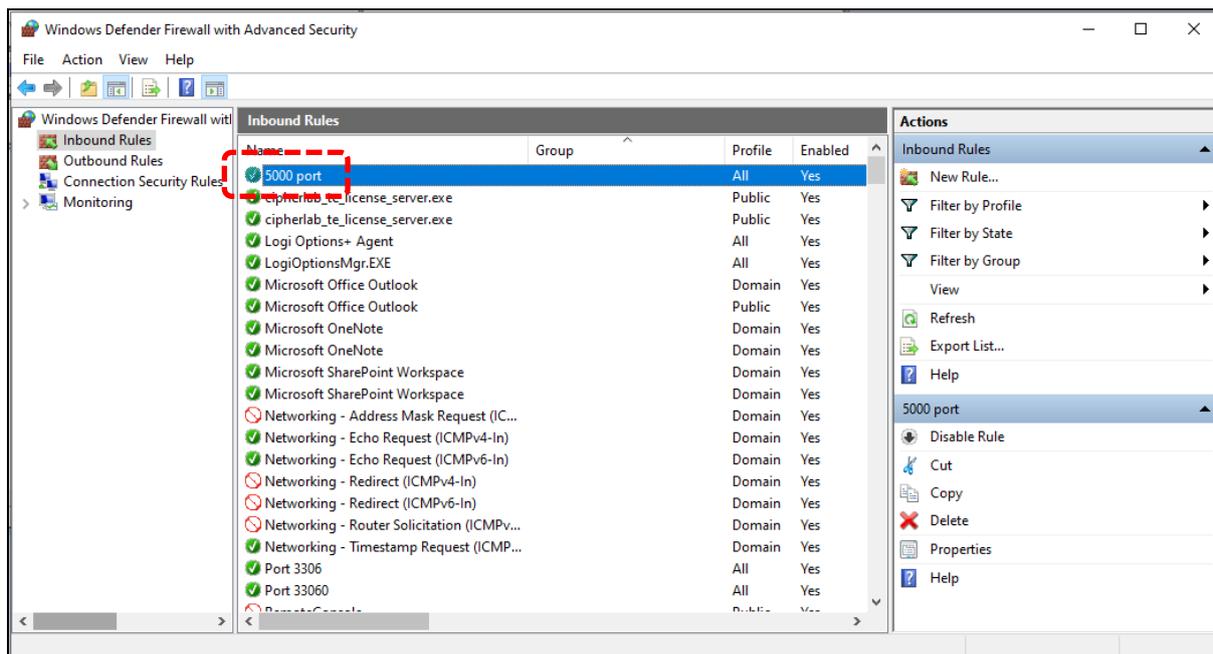
1

Name:
5000 port

Description (optional):
TE License Server

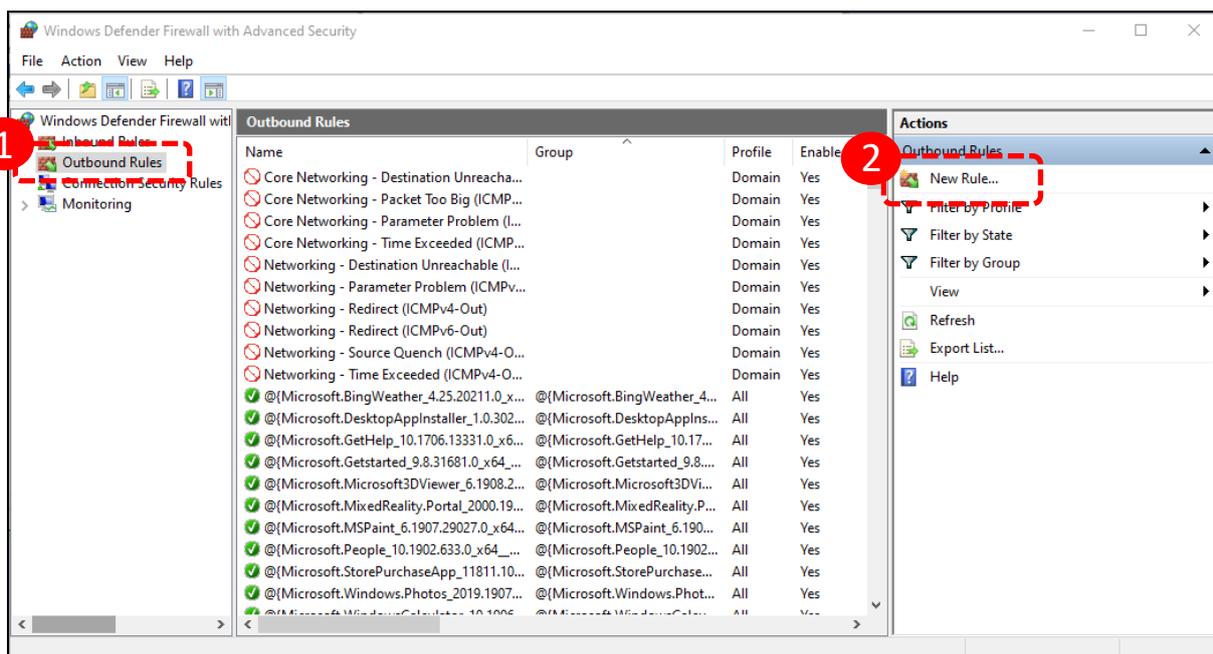
< Back **Finish** Cancel

9. When the new firewall rule is successfully created, the port number will be listed.

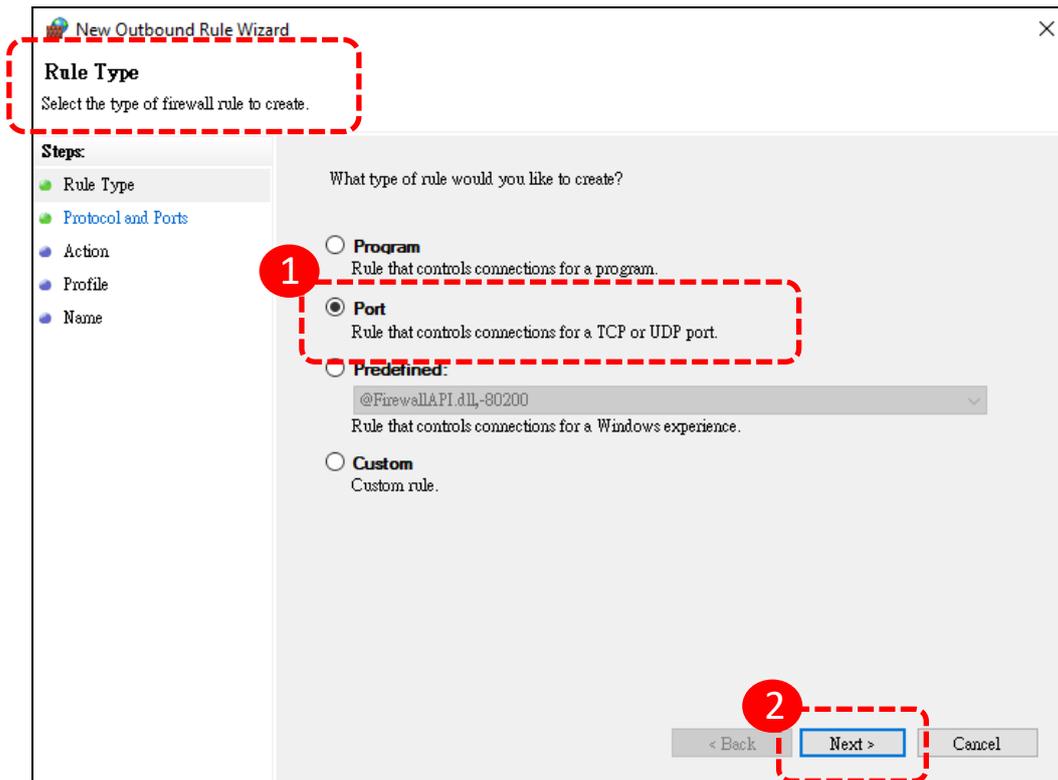


10. Click "Outbound Rules".

11. Click "New Rule..." on the action list for "Outbound Rules".

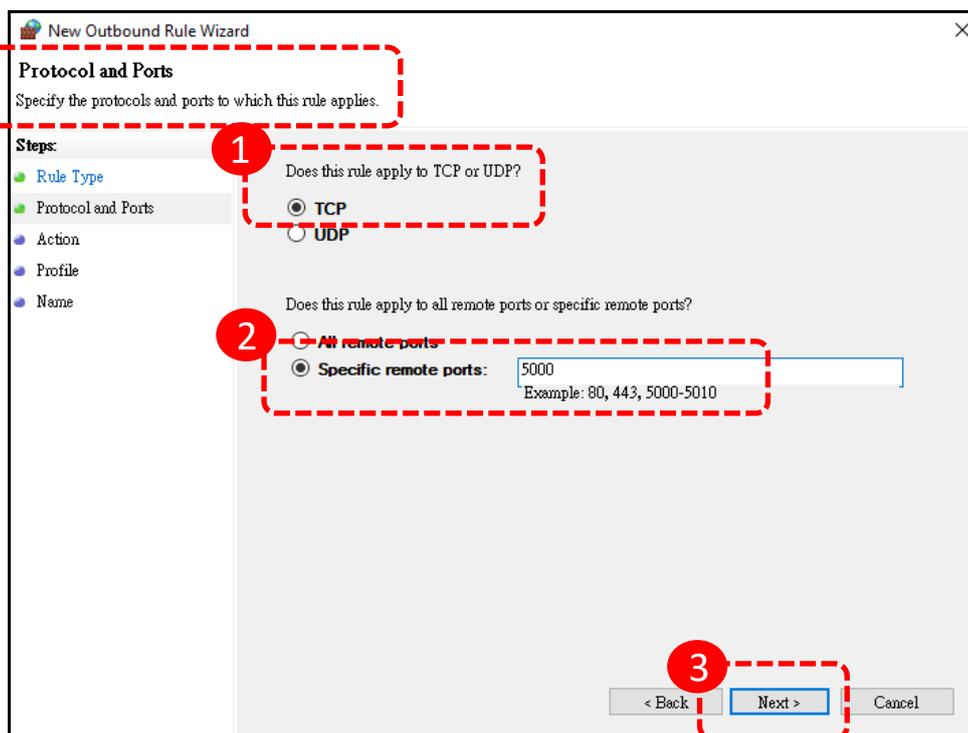


12. For "Rule Type", select "Port" and click "Next".

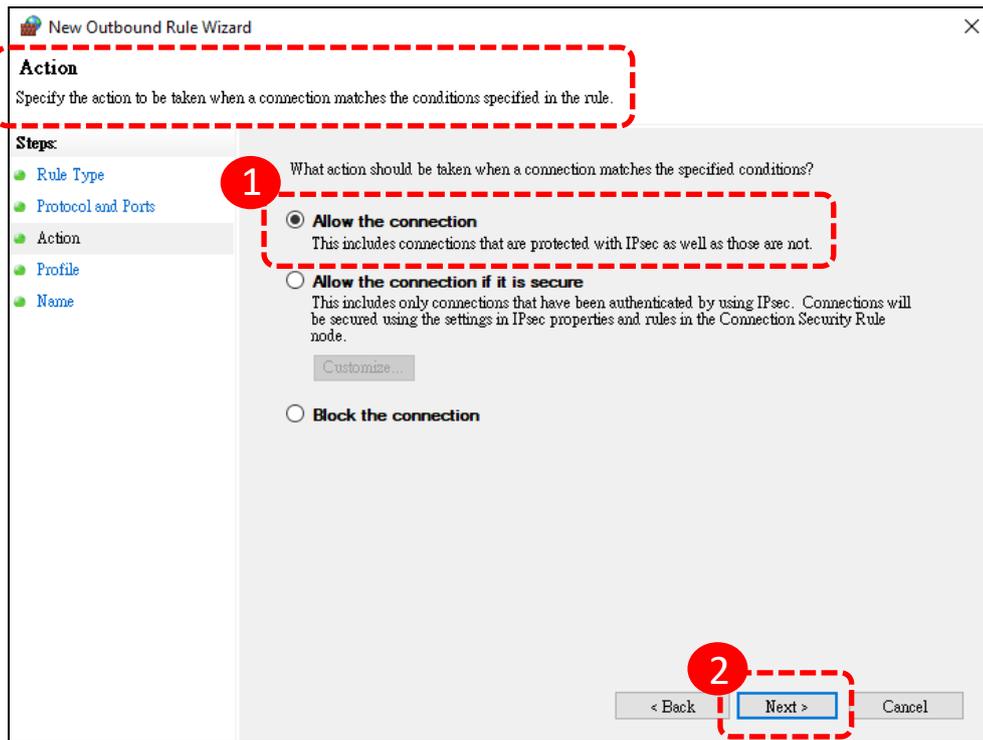


13. For "Protocol and Ports", select "TCP" and enter the Server's port number in the "Specific local ports" field. Click "Next".

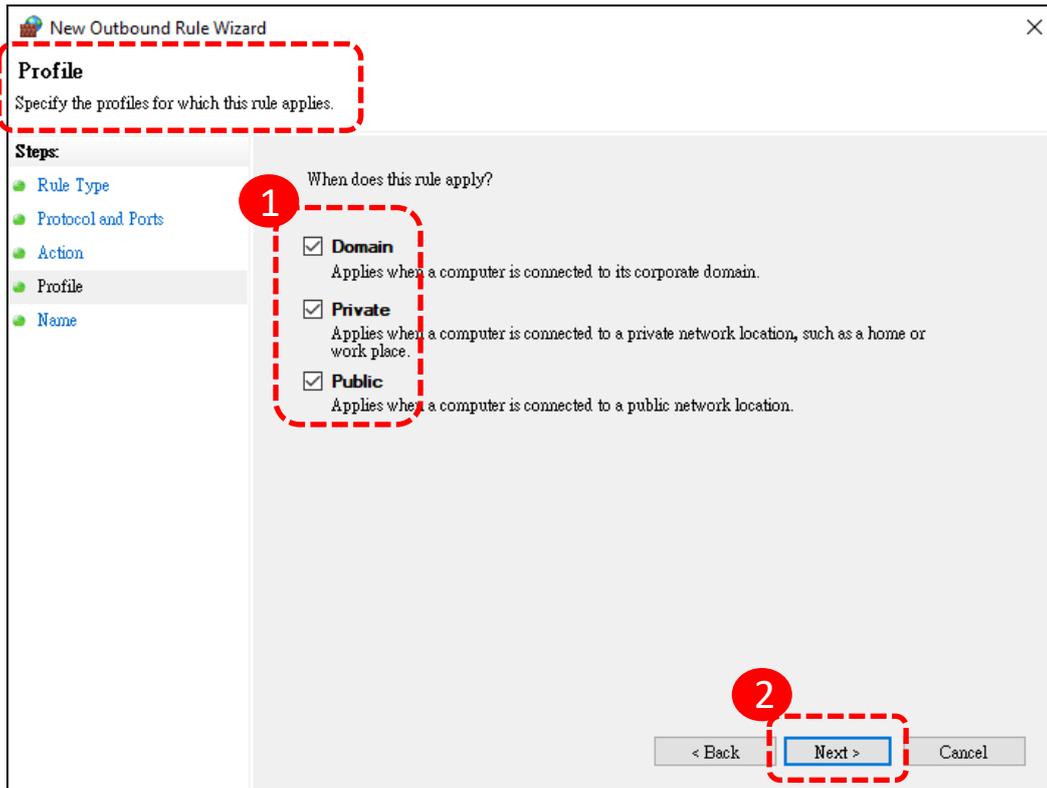
You can check the Server's port number on [the "Status" page](#).



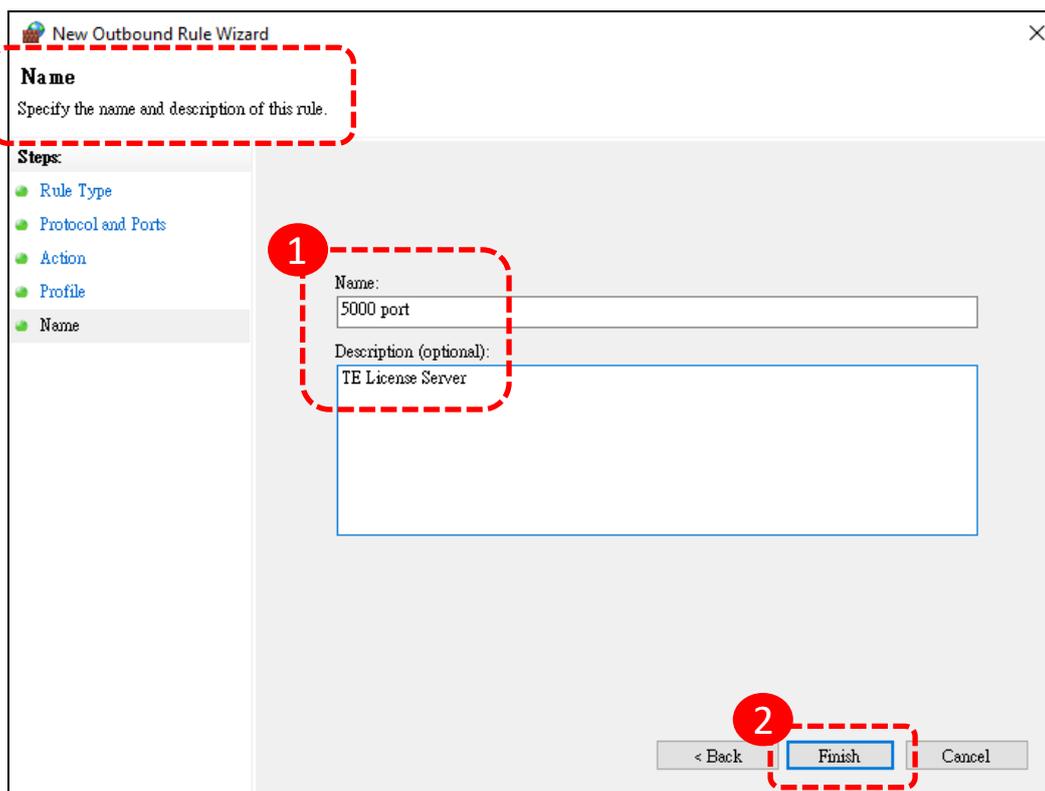
14. For "Action", select "Allow the connection" and click "Next".



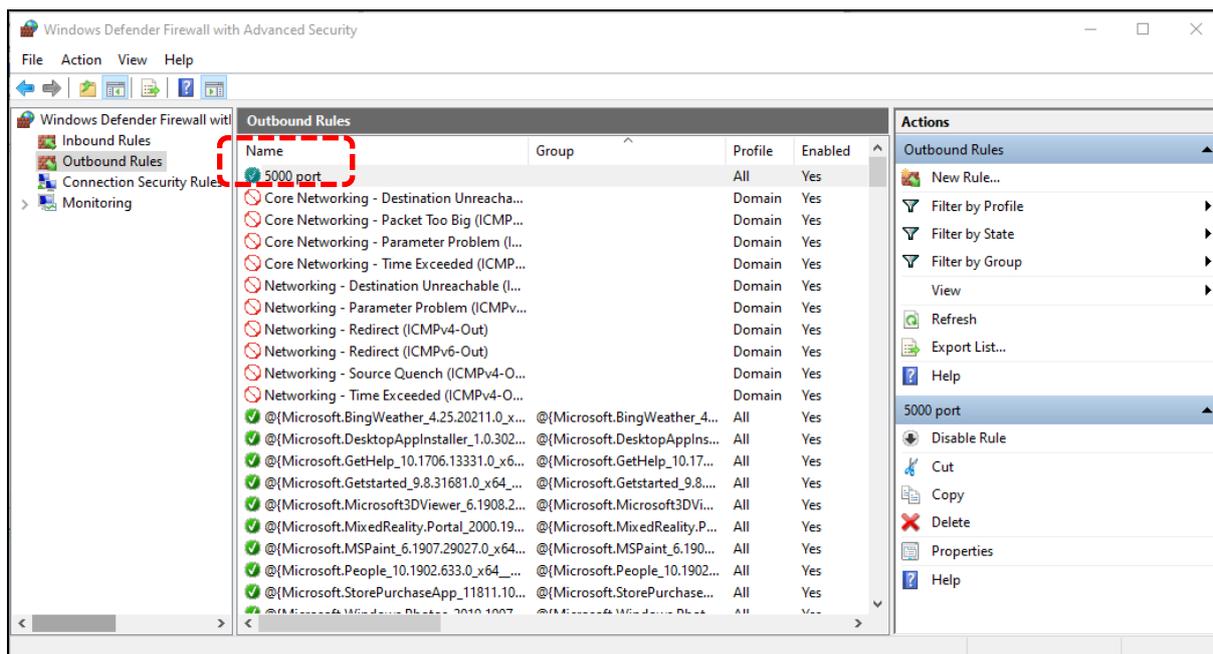
15. For "Profile", select all, including "Domain", "Private", and "Public". Click "Next".



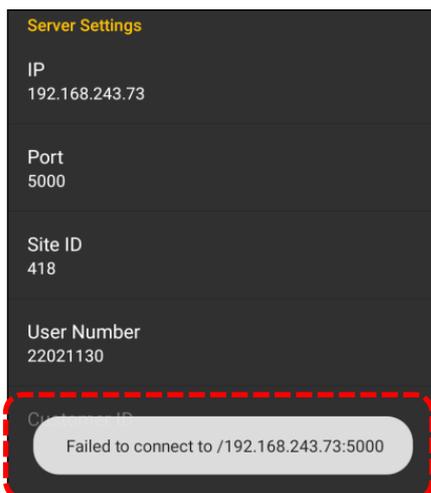
16. For "Name", enter a name as a mark for this port setting. Click "Finish".



17. When the new firewall rule is successfully created, the port number will be listed.

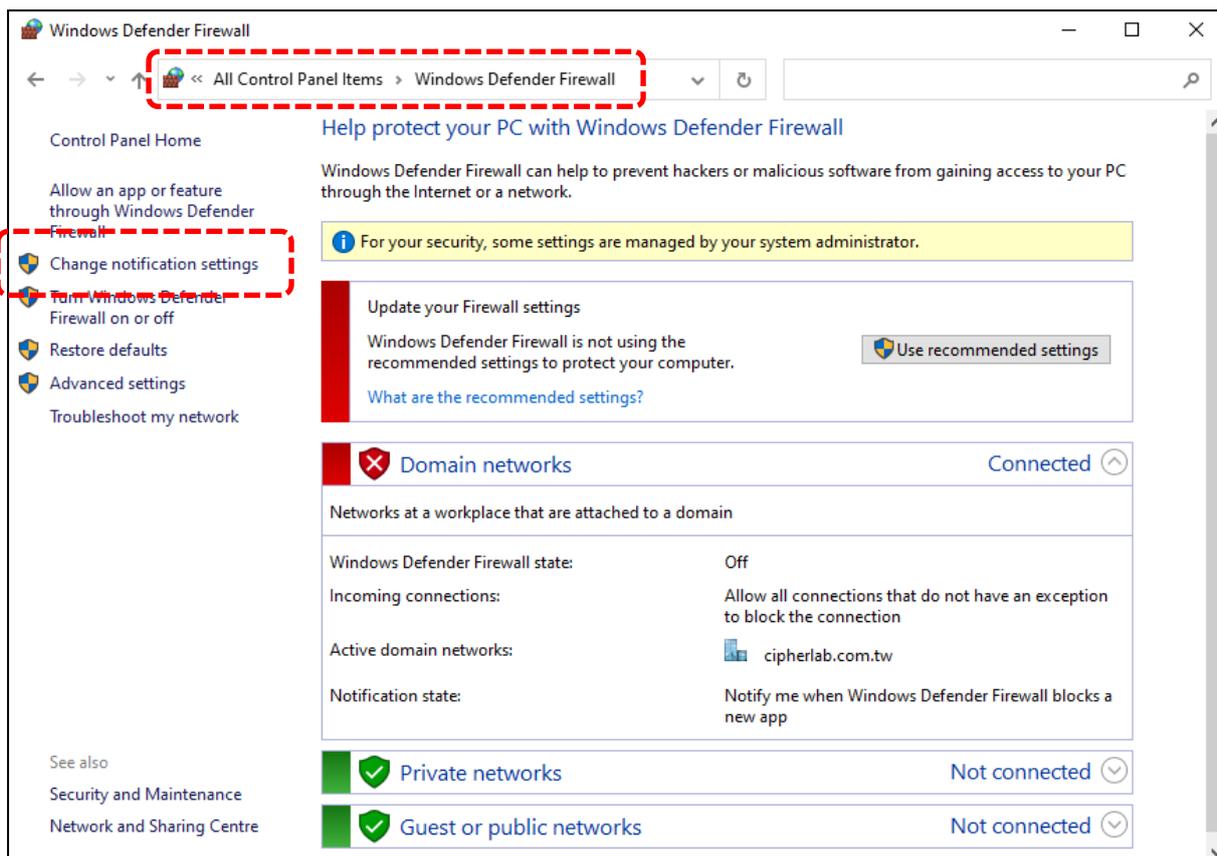


12) If still failed:

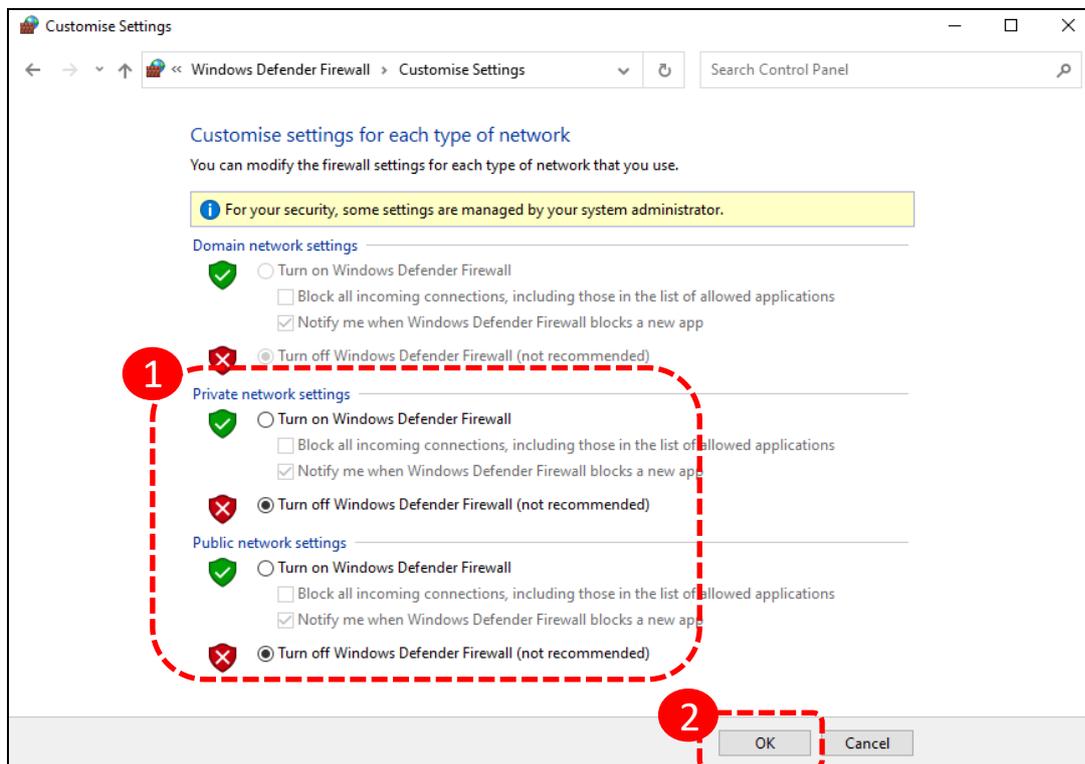


1. Check if the Windows Defender Firewall settings allow access to specified ports on your computer.
2. Check if the entered information, including IP, port, and Site ID, is correct.
3. Check if the [requirements](#) are all fulfilled.
4. Ultimately, follow the steps to turn off and disable the Windows Defender Firewall:

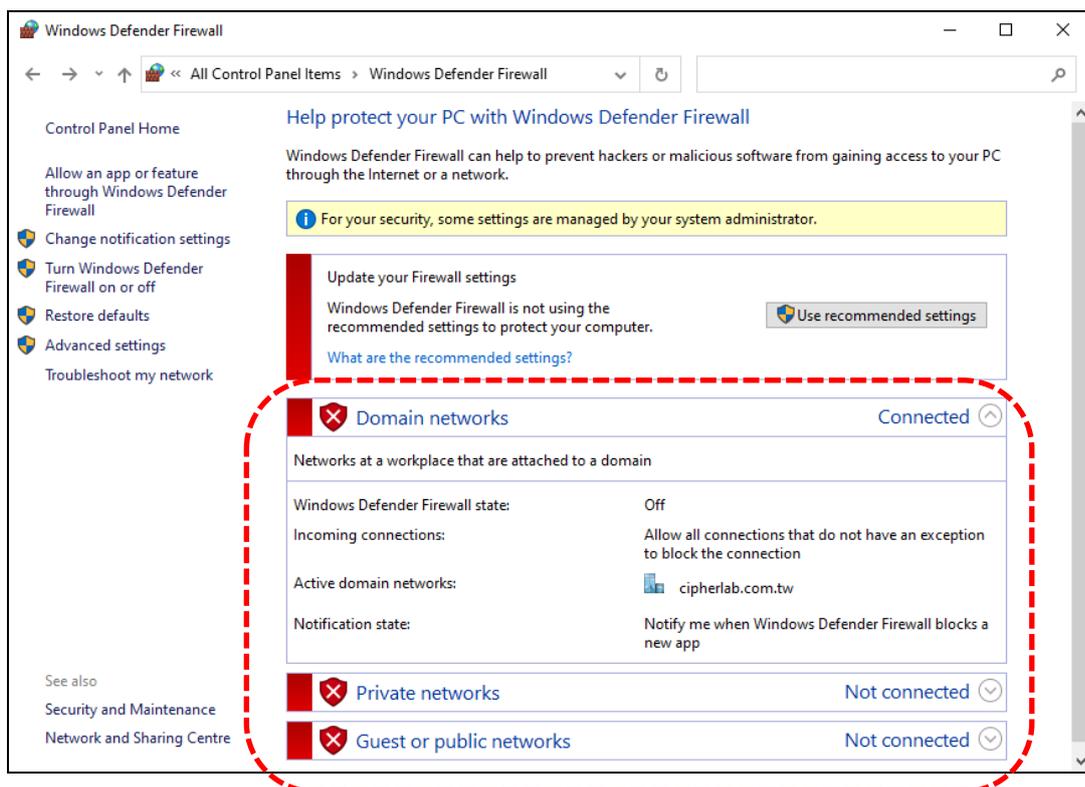
(1) Access **Control Panel > Windows Defender Firewall > Change notification settings.**



- (2) For "Private network settings", select "Turn off Windows Defender Firewall".
- (3) For "Public network settings", select "Turn off Windows Defender Firewall".
- (4) Click "OK" to carry out the changed settings.



- (5) The Windows Defender Firewall is successfully disabled.



2.2.2 DISABLE / ENABLE THE LICENSE

The "Disable" button on the "License Information" page will disallow the user to perform license assignment.

After clicking the "Disable" button, the license icon will be marked with an **✖**, suggesting that the license is unavailable.

When the license is disabled, the "Disable" button will become the "Enable" button.

Click the "Enable" button to make the license become available for performing license assignment.

CipherLab TE License Server

License Information

Buttons: Add New License, Wipe Device, Refresh

License: 20221130104207 - 3/20 (20250517) **Disable**

License name: CipherLab
TE version: 1.0
License Quantity: 20(20)
Expiration date: 20250517
Site ID: 418

Input keyword.

1- Assigned (20221201)
2- Assigned (20221130)

CipherLab TE License Server

License Information

Buttons: Add New License, Wipe Device, Refresh

License: 20221130104207 - 3/20 (20250517) **Enable**

License name: CipherLab
TE version: 1.0
License Quantity: 20(20)
Expiration date: 20250517
Site ID: 418

Input keyword.

1- Assigned (20221201)
2- Assigned (20221130)

The license is unavailable

2.2.3 DELETE LICENSE

When the license expires, the “Delete” button will appear next to [the “Disable” button](#) for the user to eliminate the expired license’s information.

The screenshot shows the 'CipherLab TE License Server' interface. On the left is a sidebar with navigation options: Status, License, Configuration, and Password. The main area is titled 'License Information' and contains buttons for 'Add New License', 'Wipe Device', and 'Refresh'. A license entry is shown with ID '20221201150247 - 0/20 (20221130)'. To its right are 'Disable' and 'Delete' buttons, with the 'Delete' button highlighted by a red dashed box. Below the license details is a search bar and two device status indicators: '1- Unassigned' and '2- Unassigned'.

To delete the license:

- 1) Click the “Delete” button. A pop-up window, “Are you sure you want to delete the license?”, will appear for the user to confirm deleting the license.
- 2) Click “Yes” to confirm deleting the license. Or, click “No” to make void.

The diagram illustrates the deletion process in three steps:

- Step 1:** The 'Delete' button on the license entry is highlighted with a red dashed box. A red arrow points from this button to the 'Yes' button in the next screenshot.
- Step 2:** A 'Message' pop-up window appears with the question: 'Are you sure you want to delete the license?'. The 'Yes' button is highlighted with a red dashed box, and a red arrow points from it to the next screenshot.
- Step 3:** The interface shows the 'Password' section with a 'Set password' button. A grey notification box in the center displays the message: 'License is deleted.'. A red arrow points from the 'Yes' button in the previous step to this notification box.

2.2.4 SEARCH BOX

In the top-left corner of the “Device” page, there is the search box for the user to search for specific devices.

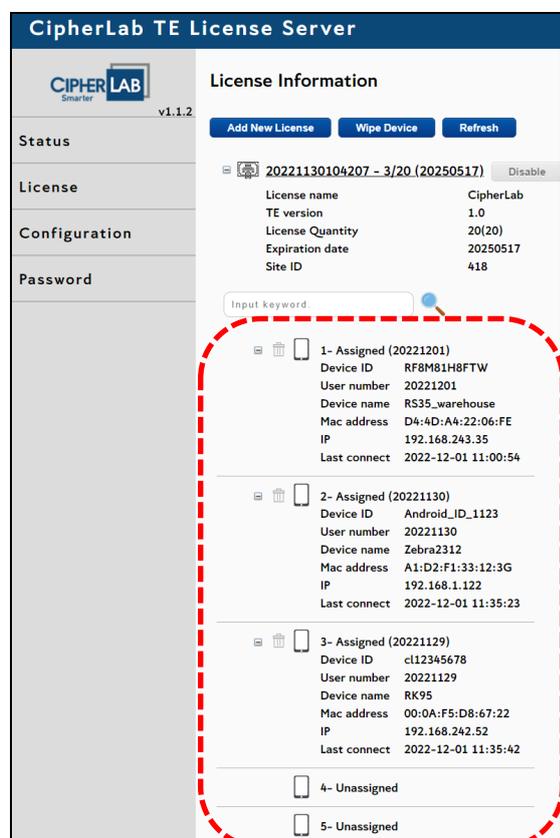
The search box includes two parts, the text area for entering keywords and the magnifying-glass button for executing the search.



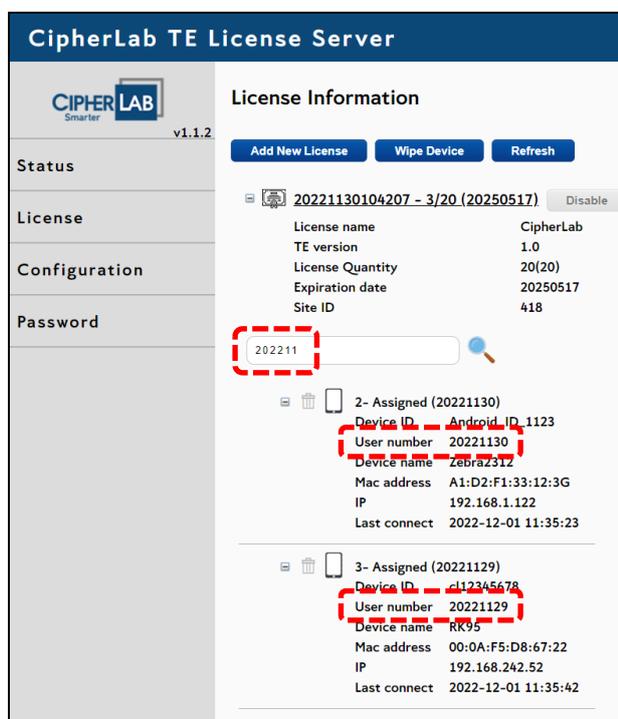
To search for a device:

1. Enter the keywords related to the device information.
2. Click the magnifying-glass button.

For more efficient reviewing, only the matching results will be displayed.



All devices

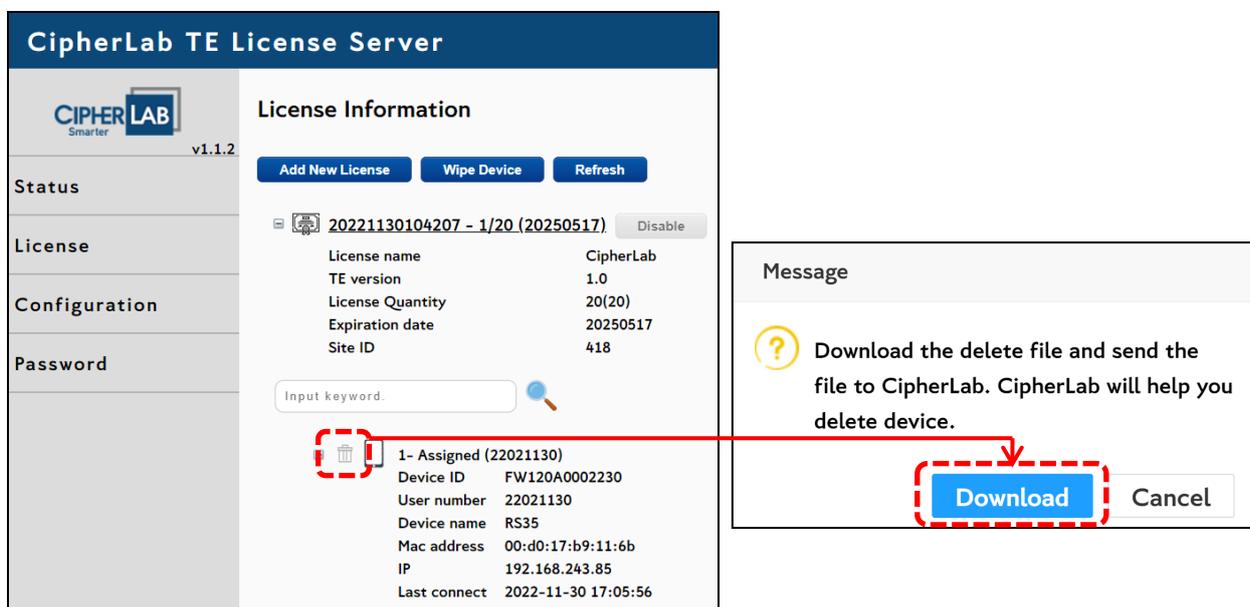


The matching results

2.3 WIPE DEVICE

Follow the steps to eliminate a device from the device list of license assignment:

- 1) Click the dustbin button  next to the device information.
- 2) Click "Download" on the pop-up window to download the .delete file.



CipherLab TE License Server

License Information

20221130104207 - 1/20 (20250517) Disable

License name	CipherLab
TE version	1.0
License Quantity	20(20)
Expiration date	20250517
Site ID	418

Input keyword. 

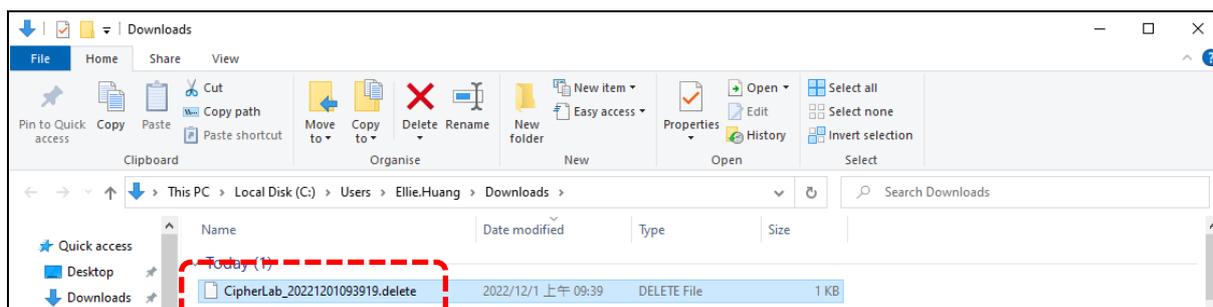
	1- Assigned (22021130)
Device ID	FW120A0002230
User number	22021130
Device name	RS35
Mac address	00:d0:17:b9:11:6b
IP	192.168.243.85
Last connect	2022-11-30 17:05:56

Message

Download the delete file and send the file to CipherLab. CipherLab will help you delete device.

Download Cancel

The .delete file will be saved in the default download location.



Downloads

File Home Share View

Clipboard Organise New Open Select

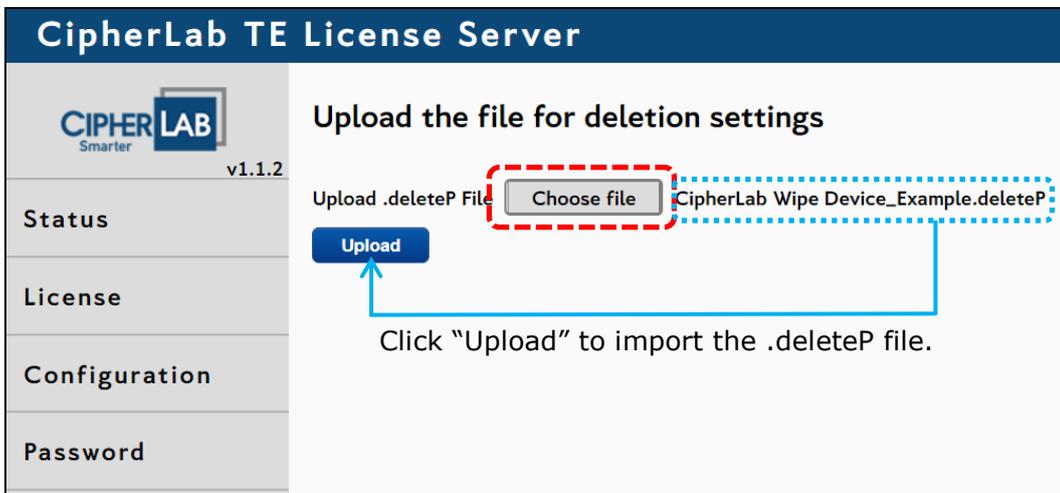
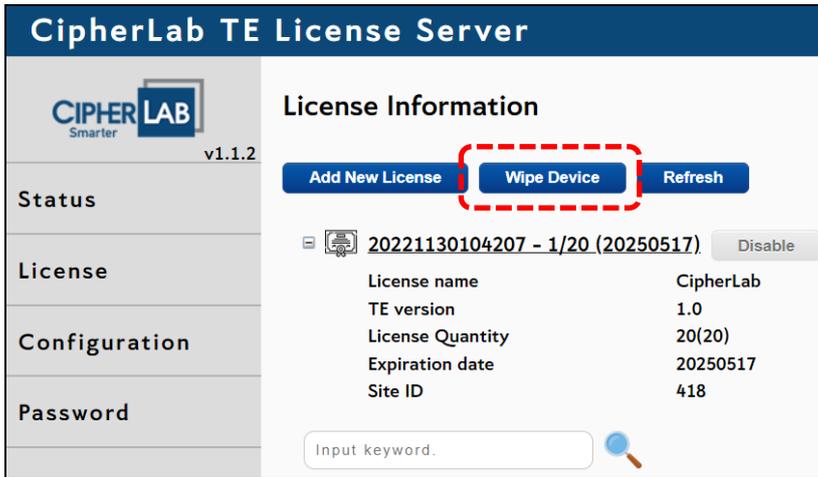
This PC > Local Disk (C:) > Users > Ellie.Huang > Downloads

Name	Date modified	Type	Size
CipherLab_20221201093919.delete	2022/12/1 上午 09:39	DELETE File	1 KB

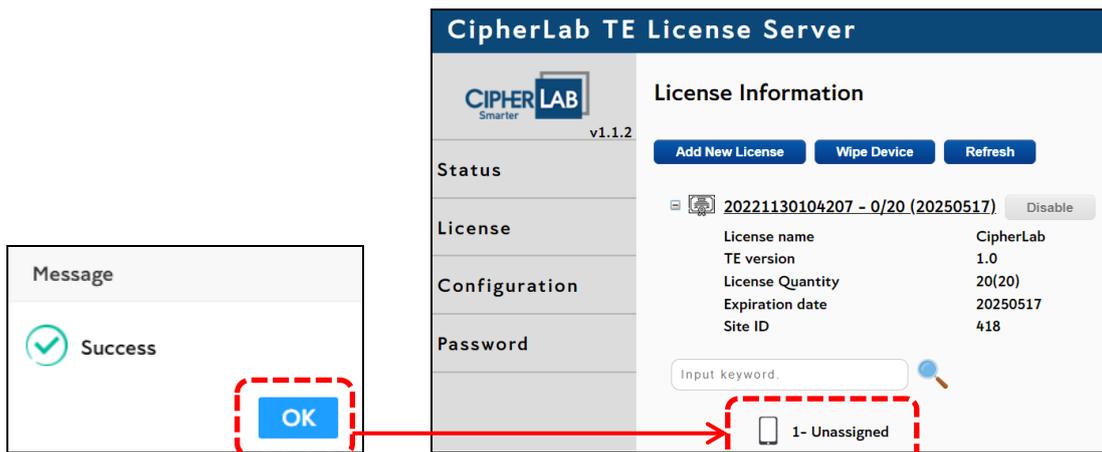
- 3) Contact CipherLab and provide us with this .delete file.
- 4) We will send you a .deleteP file for wiping the device. As shown:



- 5) Click "Wipe Device" to enter the deletion setting page.
- 6) Click "Choose file". Select and open the .deleteP file.
- 7) Click "Upload" to import the .deleteP file.



- 8) A pop-up window will appear to notify you of the completion.
- 9) Click "OK" and you will be redirected to the "License Information" page.
- 10) The device is wiped successfully and removed from the device list.



2.4 REFRESH

Click the **Refresh** button in the top-right corner of the "License Information" page to update and receive the latest data.

A notification message "Refresh complete." will appear to notify you that the data is successfully updated.

The image shows two screenshots of the CIPHER LAB TE License Server interface. The top screenshot shows the 'License Information' page with the 'Refresh' button highlighted by a red dashed box. The bottom screenshot shows the same page with a 'Refresh complete.' notification box overlaid on the device information section. A red arrow points from the 'Refresh' button in the top screenshot to the notification box in the bottom screenshot.

CipherLab TE License Server

License Information

Add New License **Wipe Device** **Refresh**

20221130104207 - 1/20 (20250517) **Disable**

License name	CipherLab
TE version	1.0
License Quantity	20(20)
Expiration date	20250517
Site ID	418

Input keyword.

1- Assigned (20221201)

Device ID	RF8M81H8FTW
User number	20221201
Device name	RS35_warehouse
Mac address	D4:4D:A4:22:06:FE
IP	192.168.243.35
Last connect	2022-12-01 11:00:54

Refresh complete.

1- Assigned (20221201)

Device ID	RF8M81H8FTW
User number	20221201
Device name	RS35_warehouse
Mac address	D4:4D:A4:22:06:FE
IP	192.168.243.35
Last connect	2022-12-01 11:00:54

Chapter 3

PORT CONFIGURATION

This chapter carries the introduction of how to change the port number for TE License Server.

3.1 CHANGE PORT

TE License Server allows the user to easily change the Server’s port number.

Follow the steps to change the Server’s port number:

- 1) Click “Configuration” on the sidebar menu to enter the port setting page.
- 2) Enter the port number.
- 3) Click “Submit”. A pop-up window will appear for the user to confirm changing.

Status

OverView

Server ID B0F7F7B6C0B19AAB3D9135D27046FEA4E56A0D9A copy

IP 192.168.243.73

Port 5000 The original port number

Computer Name CNBK000262

Software Version 1.1.2

License Quantity 20

License Assigned 0%

CIPHERLAB TE License Server



Configuration

Port

Submit

Configuration

Message

Are you sure you want to change the port?

Yes
No

Message

✔ Success.

OK

CIPHERLAB TE License Server



Status

OverView

Server ID B0F7F7B6C0B19AAB3D9135D27046FEA4E56A0D9A copy

IP 192.168.243.73

Port 4999 ← The port number is successfully changed.

Computer Name CNBK000262

Software Version 1.1.2

License Quantity 20

License Assigned 0%

Chapter 4

PASSWORD

This chapter carries the introduction of how to set, change, and remove the password on TE License Server.

4.1 SET THE PASSWORD

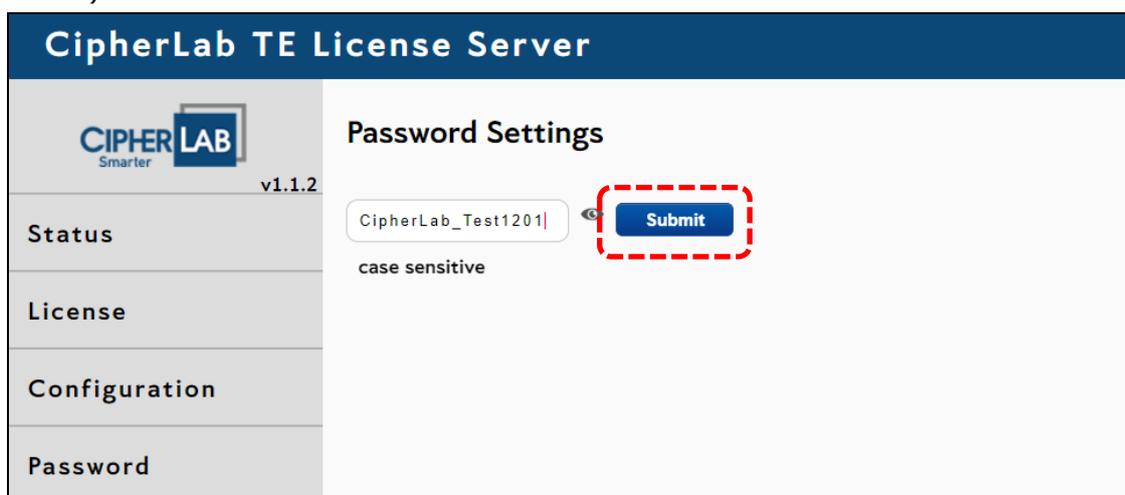
For data protection, TE License Server allows users to set password to avoid unauthorized access.

“**Password Settings**” is the page that allows the user to set, change, and remove their password for TE License Server.

If you forgot your password, please contact CipherLab Support: Support@cipherlab.com

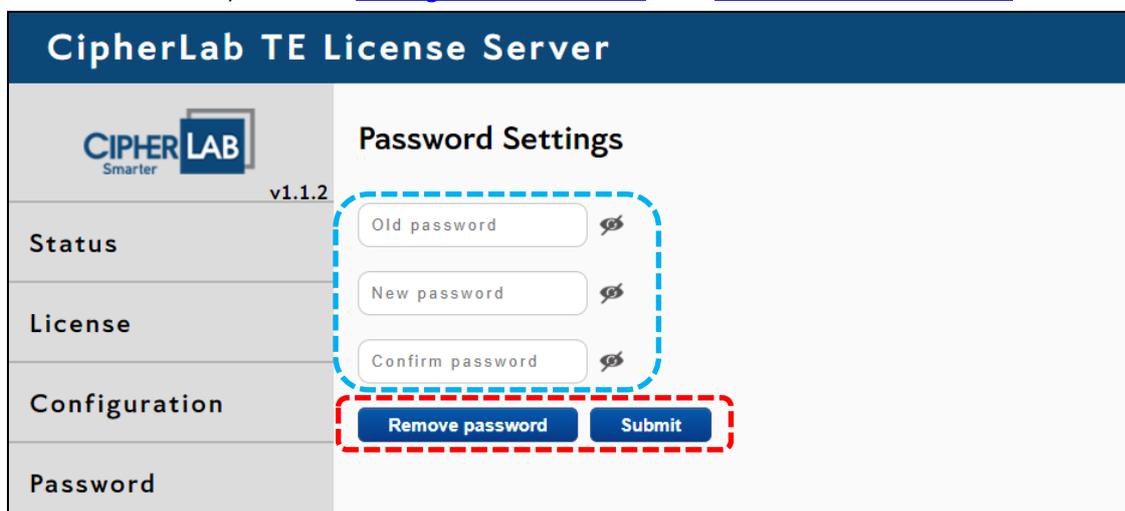
Follow the steps to set the password:

- 1) Click “**Password**” on the sidebar menu to enter the “Password Settings” page.
- 2) Enter a password, at least 4 characters or digits.
- 3) Click “Submit”.



When the password is successfully set, 3 text areas and 2 setting buttons “Remove password” and “Submit” will appear on the Password Settings page.

For more details, refer to [Change the Password](#) and [Remove the Password](#).



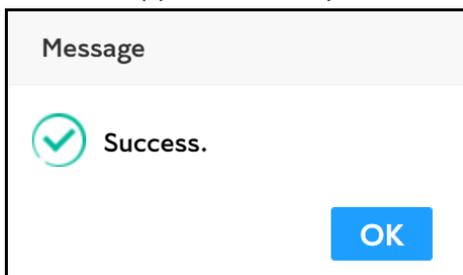
4.2 CHANGE THE PASSWORD

Follow the steps to change your password:

- 1) Input the original password.
- 2) Input the new password.
- 3) Input the new password again for confirming.
- 4) Click "Submit".

The screenshot shows the 'CipherLab TE License Server' interface. On the left is a sidebar with a logo for 'CIPHER LAB Smarter v1.1.2' and menu items: 'Status', 'License', 'Configuration', and 'Password'. The main area is titled 'Password Settings' and contains three input fields: 'Old password' (with a red arrow icon), 'New password' (with a blue arrow icon), and 'Confirm password' (with a green arrow icon). Below the fields are two buttons: 'Remove password' and 'Submit'.

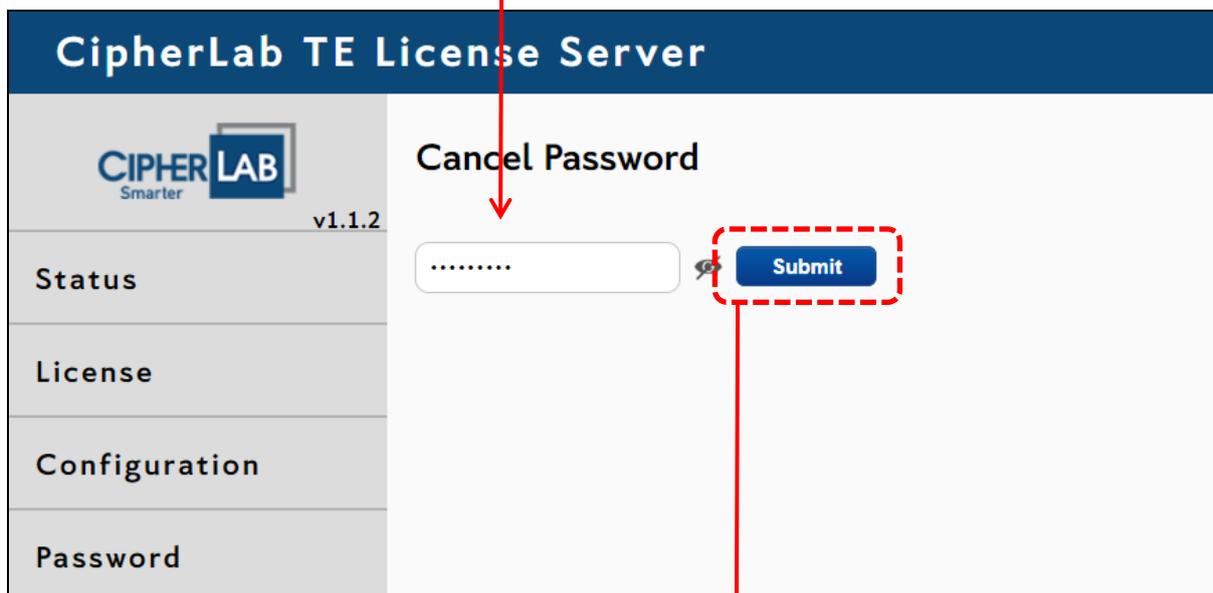
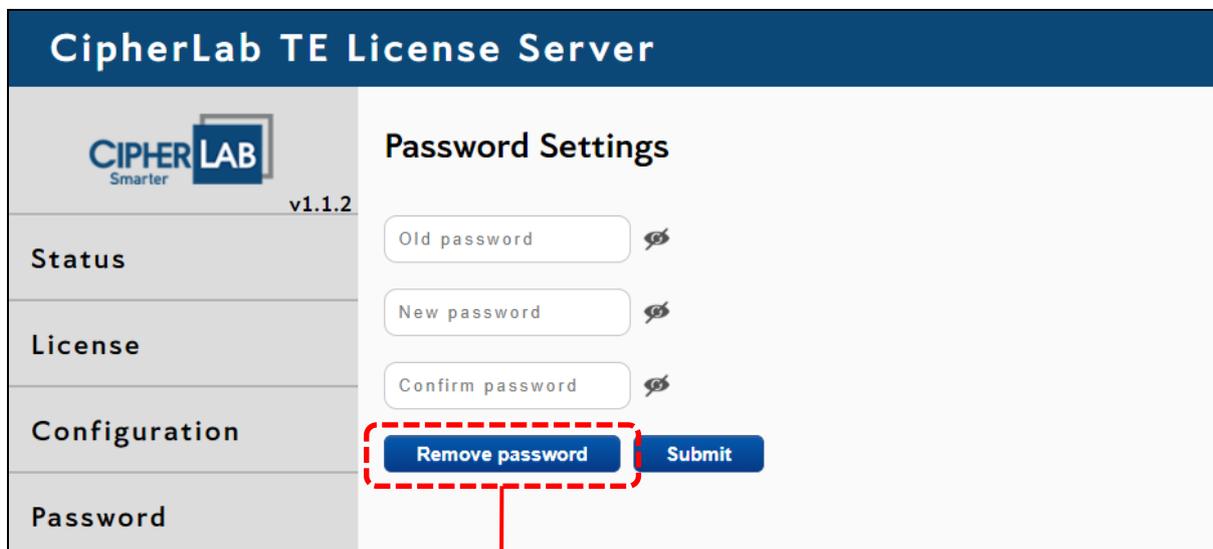
A pop-up window will appear to notify the user of the completion.



4.3 REMOVE THE PASSWORD

Follow the steps to change your password:

- 1) Click "Remove password".
- 2) Input your password.
- 3) Click "Submit".



A pop-up window will appear to notify the user of the completion.

