

Software for Floating License Management V2.09.00

User's Manual

Target Device

RL78 Family

RX Family

RH850 Family

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TOYOSU FORESIA, 3-2-24 Toyosu,
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How to Use This Manual

This manual describes the role of the floating license for developing applications and systems for RH850 family, RX family, and RL78 family, and provides an outline of its features.

Readers	This manual is intended for users who are using development environments from Renesas in the design of application systems.	
Purpose	This manual is intended to help users understand the license management functions and for use as a reference in developing software in development environments from Renesas.	
Organization	This manual can be broadly divided into the following units. 1.GENERAL 2.FUNCTIONS 3.MESSAGES	
How to Read This Manual	It is assumed that the readers of this manual have general knowledge of electricity, logic circuits, and microcontrollers.	
Conventions	Data significance:	Higher digits on the left and lower digits on the right
	Active low representation:	XXX (overscore over pin or signal name)
	Note:	Footnote for item marked with Note in the text
	Caution:	Information requiring particular attention
	Remarks:	Supplementary information
	Numeric representation:	Decimal ... XXXX
		Hexadecimal ... 0XXXXX

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1. GENERAL

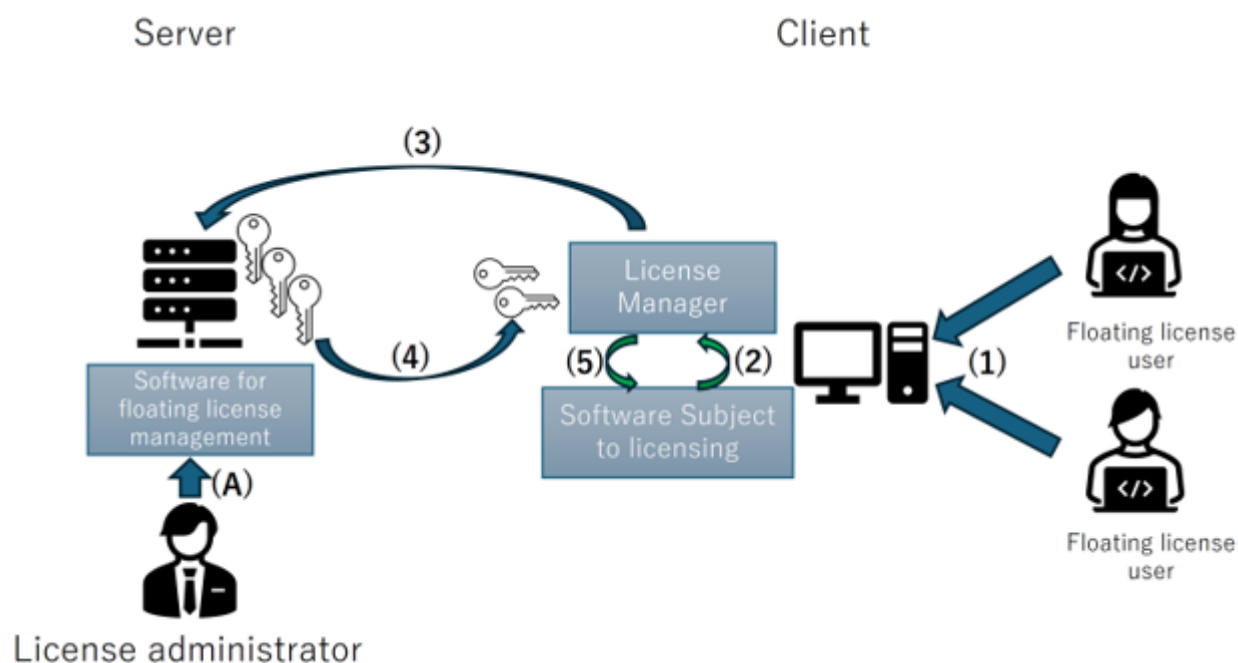
This manual describes how to manage the licenses for the development environments in developing applications and systems for microcontrollers of certain families (RH850, RX, and RL78) in the form of floating licenses.

It also describes how to manage floating licenses on the server side. For managing floating licenses on the client side, refer to the License Manager User's Manual.

1.1 Introduction

Floating licensing is a licensing approach in which a limited number of licenses for software used by multiple users are managed by a single computer (server) and the users of any computers (clients) connected to the network can use the software within the limit of the number of licenses. Floating licenses support multi-user environments and can be assigned to individual users of Linux or Windows.

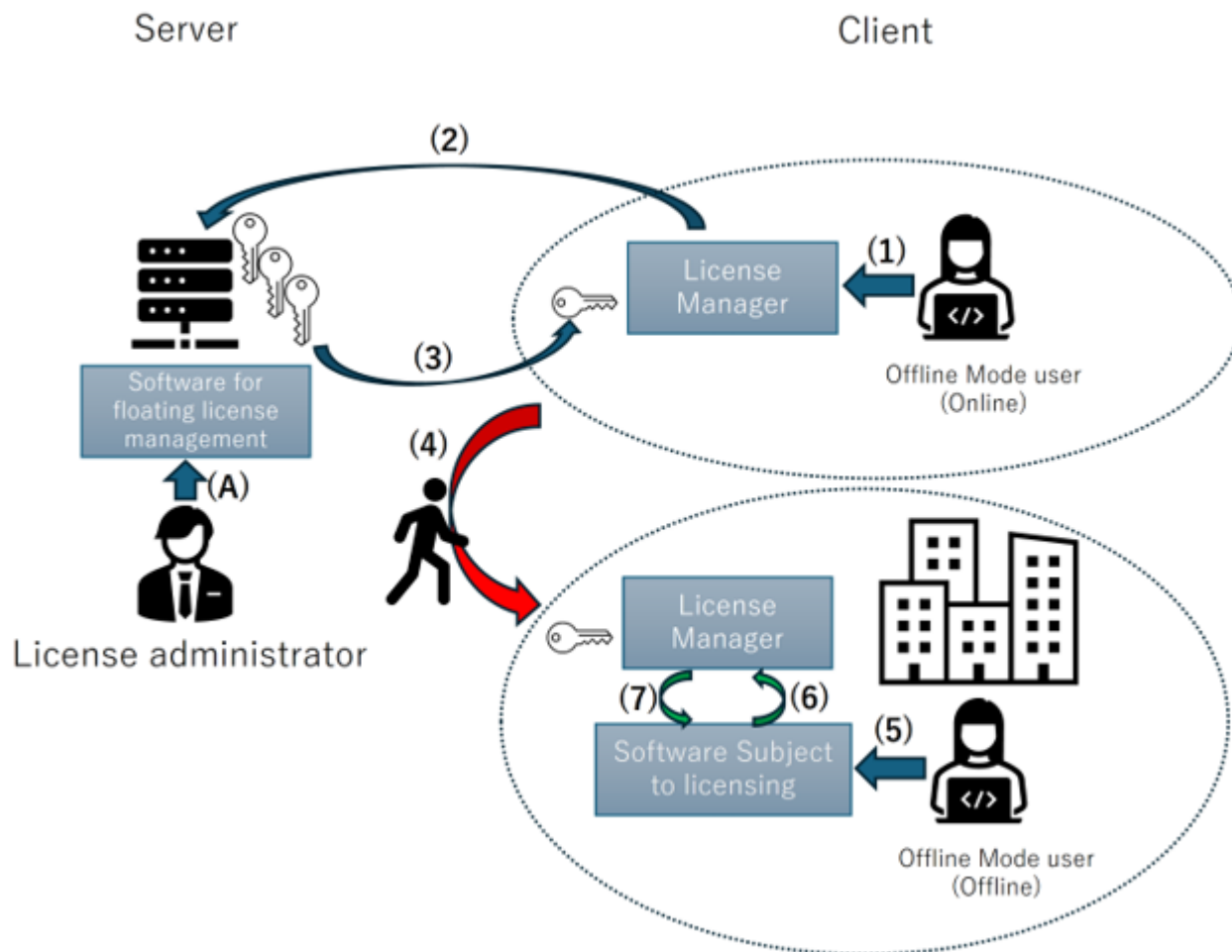
Figure 1.1 System Structure for Floating Licenses



- (A) A license key is added.
- (1) Launch the development tool covered by the license.
- (2) Confirm the license.
- (3) Request for the floating license.
- (4) The floating license is granted.
- (5) A license is available.

A floating license cannot be used unless the computer is connected to the server. Offline mode is a mechanism that occupies the license for a certain period in order to use the license in a state disconnected after disconnection from the network environment.

Figure 1.2 System Structure for Floating Licenses (Offline Mode)



- (A) A license key is added.
- (1) The floating license (offline mode) is acquired.
- (2) Request for the floating license (offline mode).
- (3) The floating license (offline mode) is granted.
- (4) Take out the license.
- (5) Launch the development tool covered by the license.
- (6) Confirm the license.
- (7) A license is available.

The floating licenses are available as permanent licenses which place no limit on the period of validity, and as annual licenses which are valid for one year. The valid period is one year from initial registration with MyRenesas on the Renesas Web site of the license acquisition code which accompanies the compiler product. Once the period of an annual license has expired, the development tool covered by the license cannot be used.

1.2 Operating Environment

Software for floating license management operates in the following environment.

- Hardware
 - Processor and main memory that provide a comfortable user experience of the software in a software environment as described below
 - Display: Resolution at least 1024×768 (1920 × 1080 recommended)
- Software
 - OS
 - Windows 10
 - Windows 11
 - Windows Server 2016: Standard (Server Core environment is unsupported)
 - Windows Server 2019: Standard (Server Core environment is unsupported)
 - Windows Server 2022: Standard (Server Core environment is unsupported)
 - Windows Server 2025: Standard (Server Core environment is unsupported)
 - Runtime library
 - .NET Framework 4.8
 - License Manager
 - License Manager V2.08.00 (Windows) or later
 - License Manager V2.08.00 (Linux) or later
- Development environment
 - CC-RL
 - CC-RX
 - CC-RH
- License
 - Compiler V1 for RL78 (CC-RL) or later
 - Standard edition Floating License (permanent)
 - Standard edition Floating License (annual)
 - Professional edition Floating License (permanent)
 - Professional edition Floating License (annual)
 - Compiler V2 for RX (CC-RX)
 - Standard edition Floating License (permanent)
 - Standard edition Floating License (annual)
 - Professional edition Floating License (permanent)
 - Professional edition Floating License (annual)
 - Compiler V3 for RX (CC-RX) or later
 - Standard edition Floating License (permanent)
 - Standard edition Floating License (annual)
 - Professional edition Floating License (permanent)
 - Professional edition Floating License (annual)
 - Upgrade (version) Standard edition Floating License (permanent)
 - Upgrade (version) Professional edition Floating License (permanent)
 - Compiler V1 for RH850 (CC-RH)
 - Standard edition Floating License (permanent)
 - Standard edition Floating License (annual)
 - Professional edition Floating License (permanent)
 - Professional edition Floating License (annual)
 - Compiler V1 for RH850 (CC-RH) or later
 - Standard edition Floating License (permanent)
 - Standard edition Floating License (annual)

Professional edition Floating License (permanent)
 Professional edition Floating License (annual)
 Upgrade (version) Standard edition Floating License (permanent)
 Upgrade (version) Professional edition Floating License (permanent)

Registering an Upgrade (version) Floating License (permanent) and a Floating License (permanent) as the source of the upgrade with the floating license server allows you to use the functions enabled by a Floating License (permanent) at the destination of the upgrade.

Upgrade (version) Floating License (permanent)	Floating License (permanent) that is the source of the upgrade	Floating License (permanent) that is the destination of the upgrade
Compiler Upgrade (version) Standard V3 for RX (CC-RX)	Compiler Standard V2 for RX (CC-RX)	Compiler Standard V3 for RX (CC-RX)
	Compiler Professional V2 for RX (CC-RX)	
Compiler Upgrade (version) Professional V3 for RX (CC-RX)	Compiler Professional V2 for RX (CC-RX)	Compiler Professional V3 for RX (CC-RX)
Compiler Upgrade (version) Standard V2 for RH850 (CC-RH)	Compiler Standard V1 for RH850 (CC-RH)	Compiler Standard V2 for RH850 (CC-RH)
	Compiler Professional V1 for RH850 (CC-RH)	
Compiler Upgrade (version) Professional V2 for RH850 (CC-RH)	Compiler Professional V1 for RH850 (CC-RH)	Compiler Professional V1 for RH850 (CC-RH)

Example When “Compiler Upgrade (version) Standard V2 for RH850 (CC-RH)” and “Compiler Professional V1 for RH850 (CC-RH)” are registered with the floating license server, the state is the same as that after the following licenses have been registered.

- Compiler Professional V1 for RH850 (CC-RH)
- Compiler Standard V2 for RH850 (CC-RH)

Caution An Upgrade (version) floating license (permanent) cannot be used in combination with a floating license (annual).

2. FUNCTIONS

This chapter describes functions of a floating license server.

2.1 Installing a Floating License Server

Launch the installer on the server PC where the floating license server managing licenses is to operate.

- File name: FloatingLicenseServer_VXXXXX.EXE

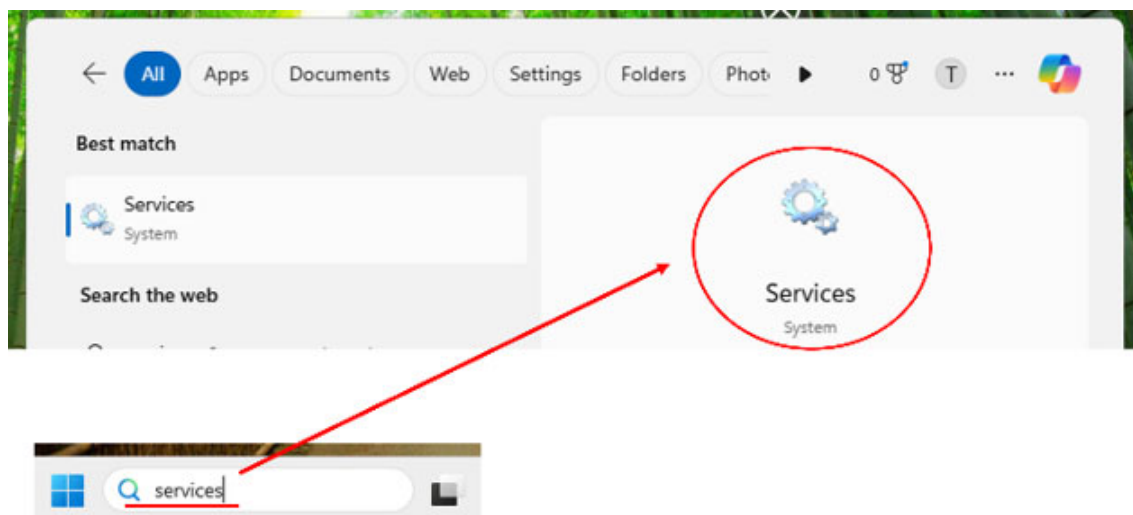
Caution The floating license server setup must be installed by an account with administrator privileges.

The floating license service is registered to the Windows services and it will be automatically started when the PC is booted up. After the service has been enabled with an option, the server continues to operate even after logging off or before logging on.

You can confirm the status of the Windows services by the following process.

- (1) Open the Services snap-in
Enter 'services' in the start menu or a search bar.

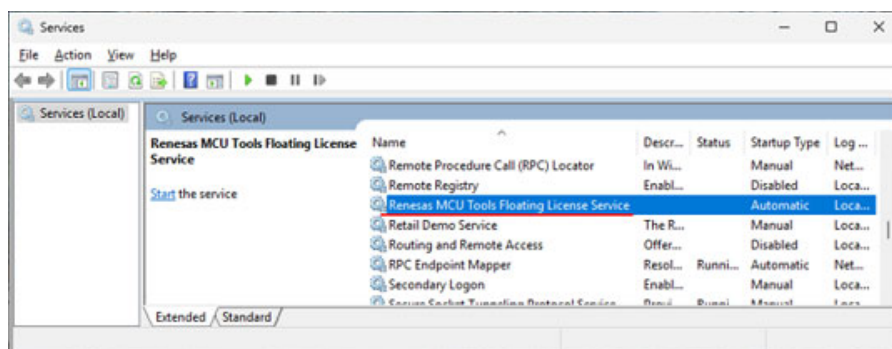
Figure 2.1 Open Services Snap-in



The Services snap-in will open.

- (2) Confirming the Windows services
"Renesas MCU Tools Floating License Service" is displayed in the Windows services list.

Figure 2.2 Services Snap-in



2.2 Uninstalling a Floating License Server

You can uninstall a floating license server by selecting [Renesas MCU Tools Floating License Server] from [Apps & features] or [Installed apps] in [Settings] of Windows.

Caution The floating license server must be uninstalled by an account with administrator privileges.

2.3 Using a Floating License

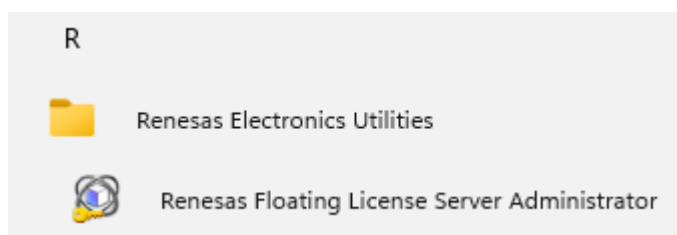
This section describes how to use a floating license.

2.3.1 Setting up the server

Start up the server administrator from the start menu and make initial settings.

- (1) Launch the server administrator GUI
Select Windows [Start] menu >> [All apps] >> [Renesas Electronics Utilities] >> [Renesas Floating License Server Administrator].

Figure 2.3 Launch the Server Administrator GUI

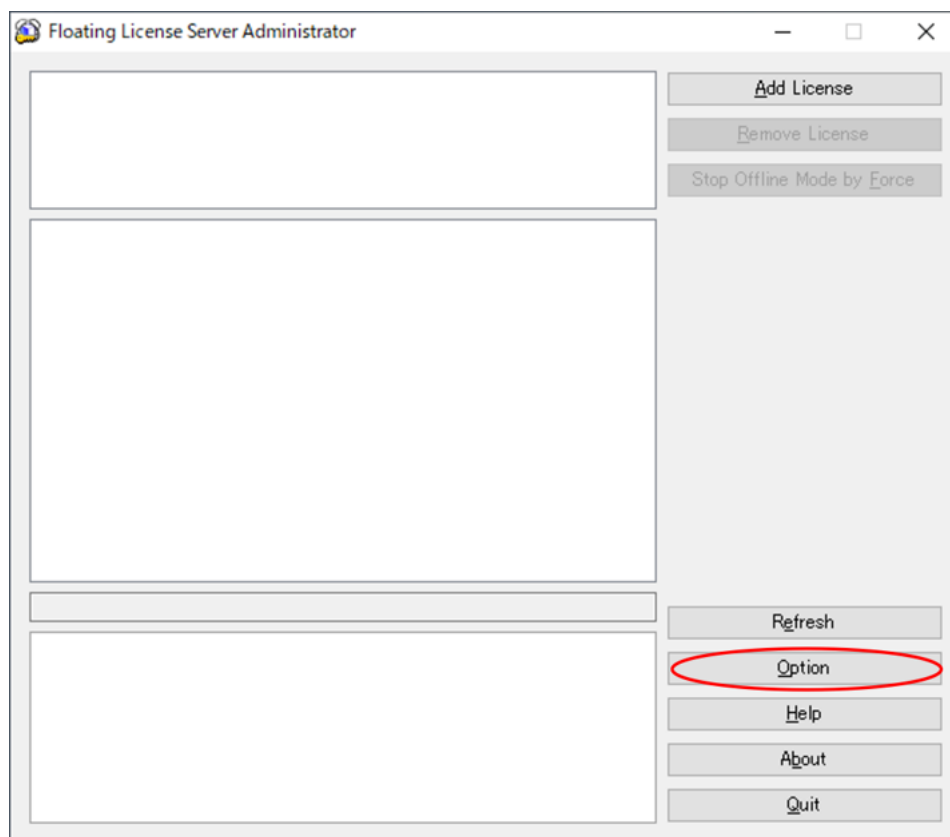


Caution Launching the server administrator GUI must be conducted with administrator privileges.

The Floating License Server Administrator window will open.

- (2) Open the server option dialog box
Click the [Option] button.

Figure 2.4 Open the Floating License Server Option Dialog Box



The Floating License Server Option dialog box will open.

Specify the port number to be used by the license server in [Server Port]. If there is a problem in the initial value (6723), change the port number.

Clicking the [Enable] button starts the floating license server.

Figure 2.5 Floating License Server Option Dialog Box (Disabled)

Floating License Server Option

This computer was stopped managing floating license.

Server Port

☒ Offer the upper-level license if lower-level license is empty.

☐ Publish usage to the license manager.

Folder for saving log file

Max log file size MB

Save the usage condition of Floating License

Start date

End date

☐ Save detailed status

When the server has started, the display changes to that shown on the below.

Figure 2.6 Floating License Server Option Dialog Box (Enabled)

Floating License Server Option

This computer is managing floating license.

Server Port

Disable

☒ Offer the upper-level license if lower-level license is empty.
☐ Publish usage to the license manager.

Folder for saving log file
 Browse

Max log file size MB

Save the usage condition of Floating License

Start date
End date

Save

☐ Save detailed status

OK Cancel Apply Help

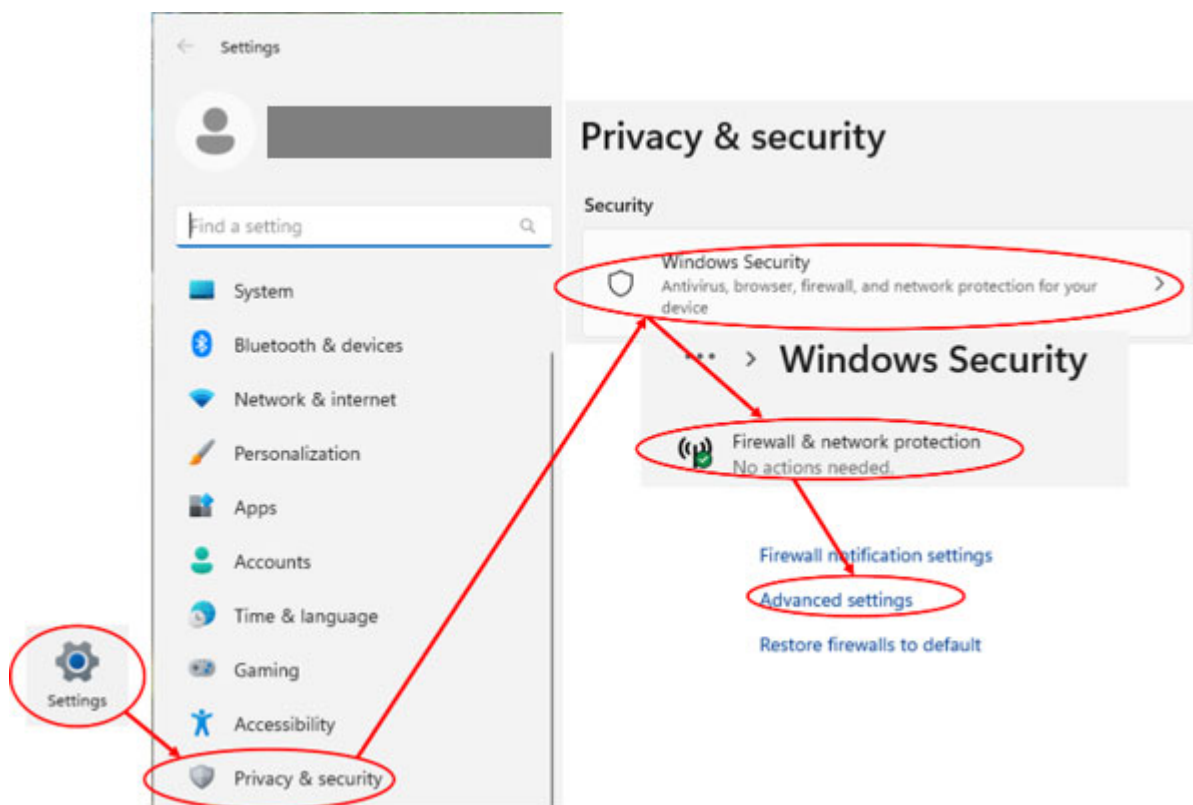
Click the [OK] button to close the dialog box.

2.3.2 Setting up the firewall

A firewall needs to be set up in order to receive license requests from clients.
Enable reception by the port number set in [Server Port] through the firewall setting.
If the Windows defender firewall is used, set up as follows.

- (1) Open the Windows defender firewall option
Open [Settings] of Windows. After that, click on [Privacy & security]>>[Windows Security]>>[Firewall & network protection]>>[Advanced settings].

Figure 2.7 Open the Windows Defender Firewall Window

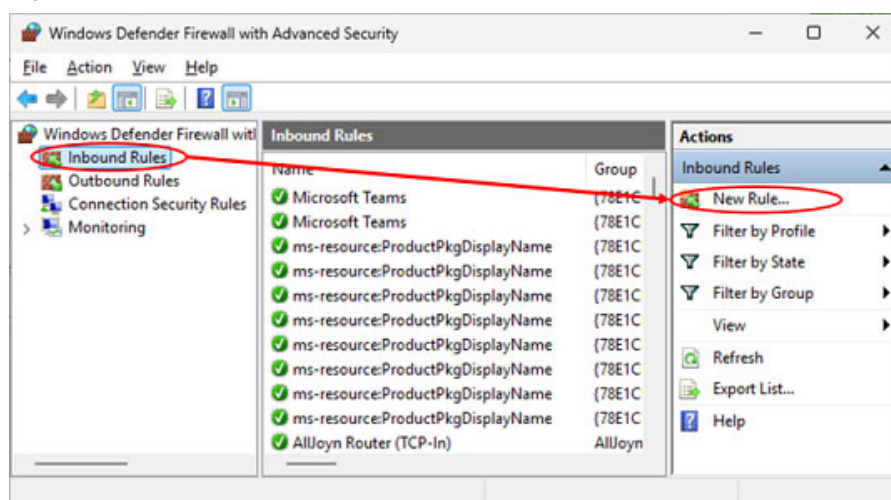


The Windows defender firewall window will open.

Caution Setting up a windows defender firewall must be conducted with administrator privileges.

- (2) Add a firewall rule
Select the [Inbound rules]>>[New Rule].

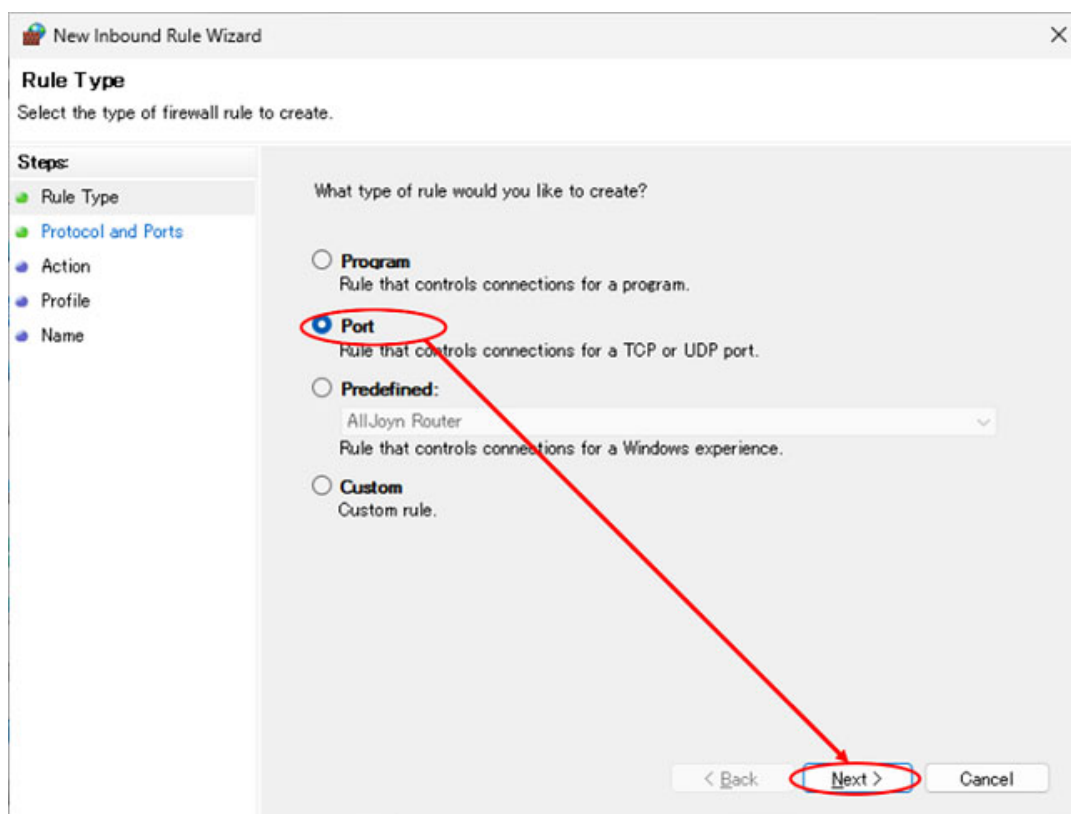
Figure 2.8 Add a Firewall Rule



The New Inbound Rule Wizard dialog box will open.

- (3) Set up a firewall rule
- (a) Specify the rule type
Select [Port] and click the [Next] button.

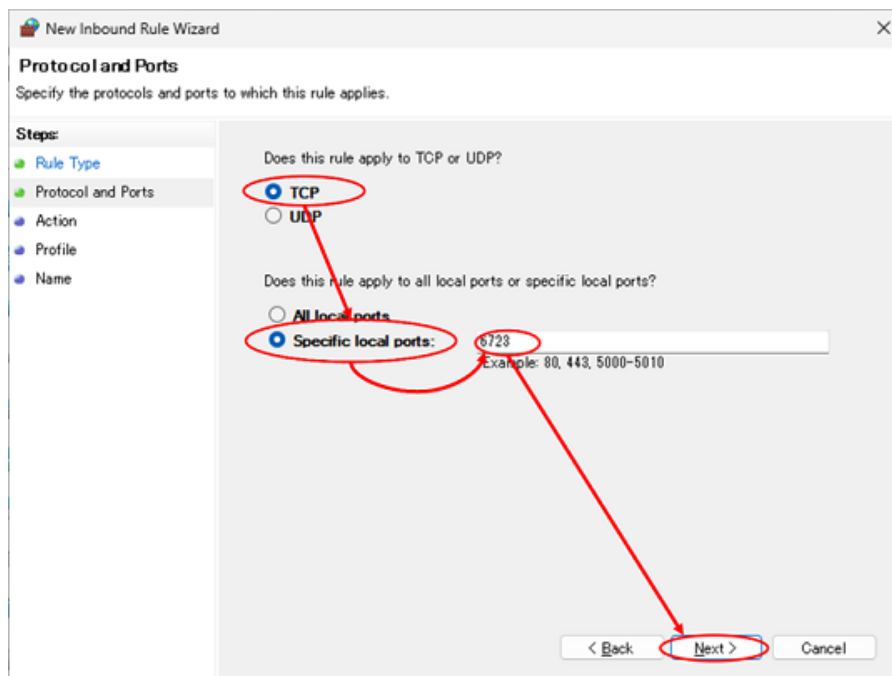
Figure 2.9 New Inbound Rule Wizard (Rule Type)



[Protocol and Ports] will open.

- (b) Specify the protocol and ports
Select [TCP] and [Specific local ports], and specify the port number specified in “2.3.1 Setting up the server” (initial value of 6723).
Click the [Next] button.

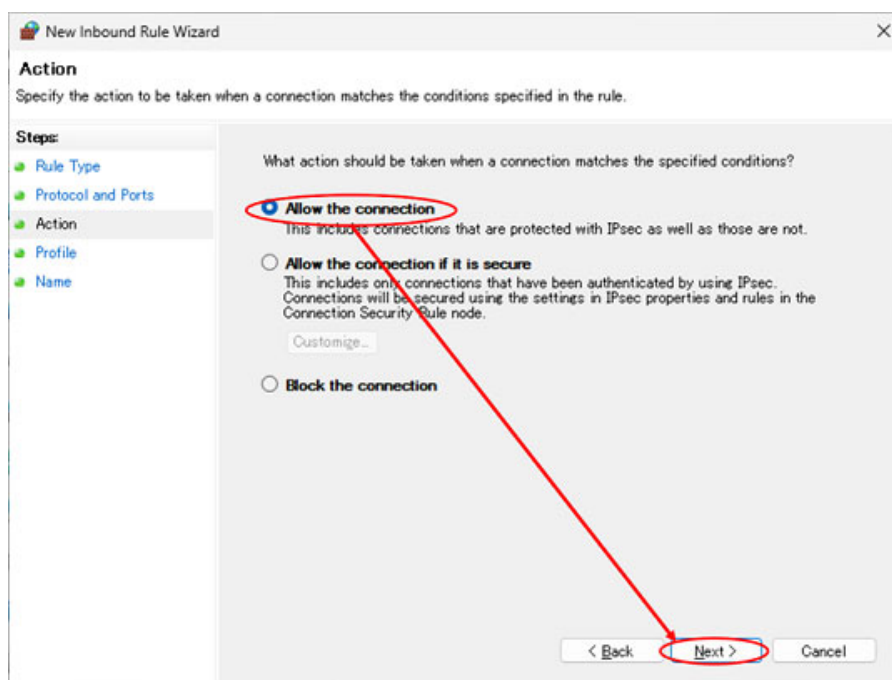
Figure 2.10 New Inbound Rule Wizard (Protocol and Ports)



[Action] will open.

- (c) Specify the action
Select [Allow the connection] and click the [Next] button.

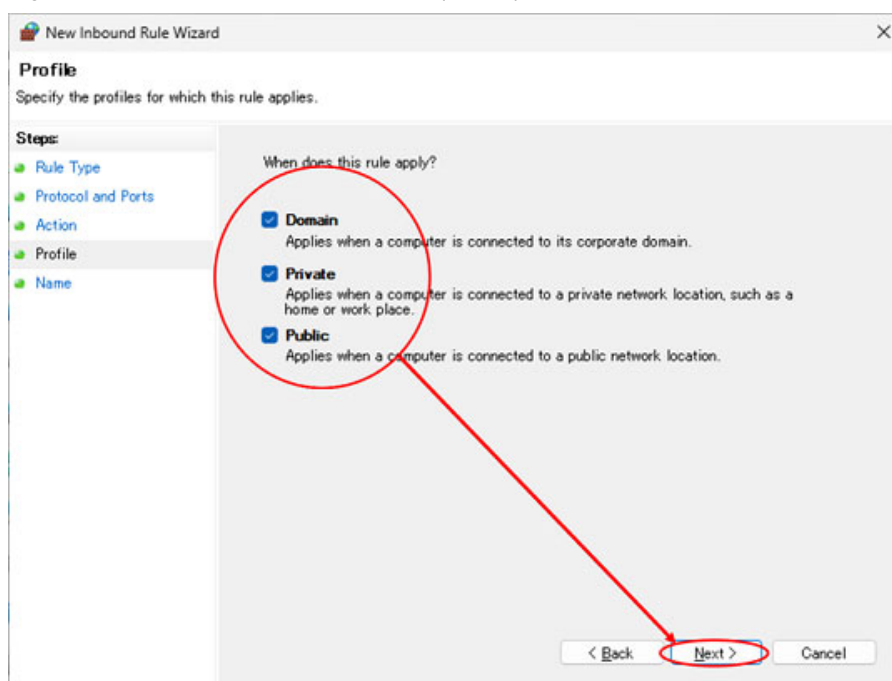
Figure 2.11 New Inbound Rule Wizard (Action)



[Profile] will open.

- (d) Specify the profile
Hold the initial state (all check boxes are selected) or uncheck unnecessary boxes according to the network environment, and click the [Next] button.

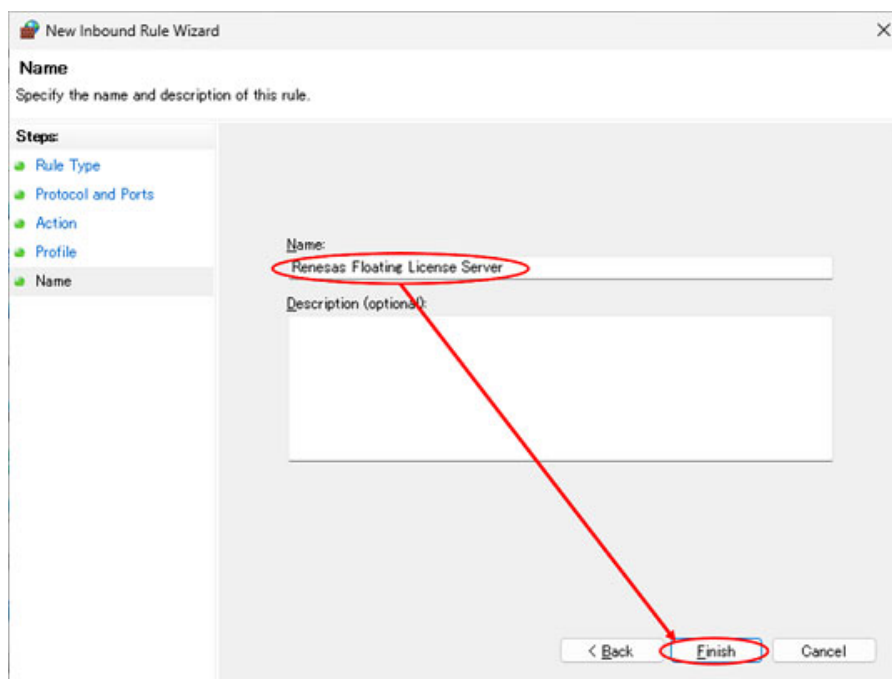
Figure 2.12 New Inbound Rule Wizard (Profile)



[Name] will open.

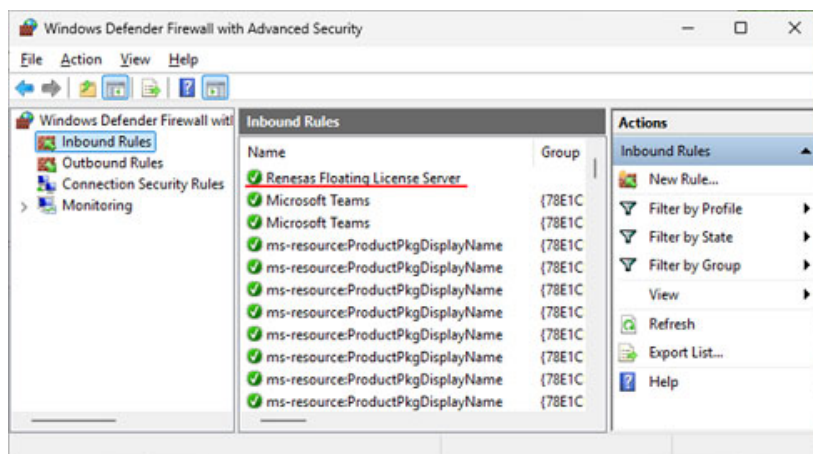
- (e) Specify the name
Specify a name that is recognizable when to be changed later (example: Renesas Floating License Server), and click the [Finish] button.

Figure 2.13 New Inbound Rule Wizard (Name)



The New Inbound Rule Wizard dialog box will close, and the set rule is added to the list of [Inbound Rules].

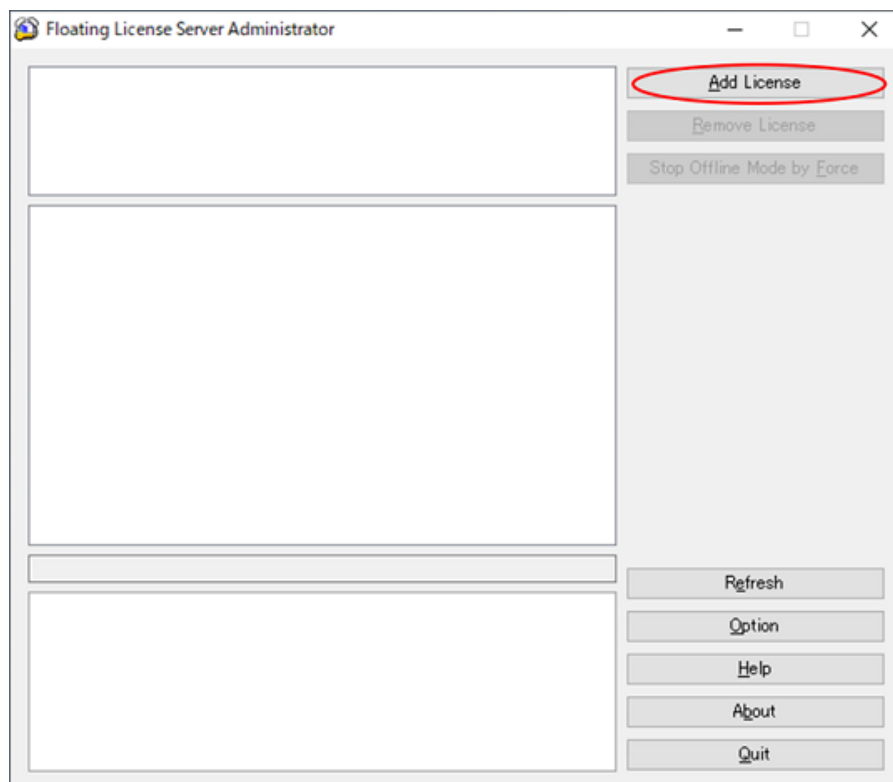
Figure 2.14 Windows Defender Firewall window (Inbound Rules)



2.3.3 Adding a license

- (1) Open the Add License dialog box
Click the [Add License] button of the Floating License Server Administrator window.

Figure 2.15 Open the Add License Dialog Box



The Add License dialog box will open.

- (2) Enter the license key
 Enter the license key in [Add following License keys] text box of the Add License dialog box, and click the [Add] button.
 More than one license can be entered in the text box at a time.

Figure 2.16 Add License Dialog Box

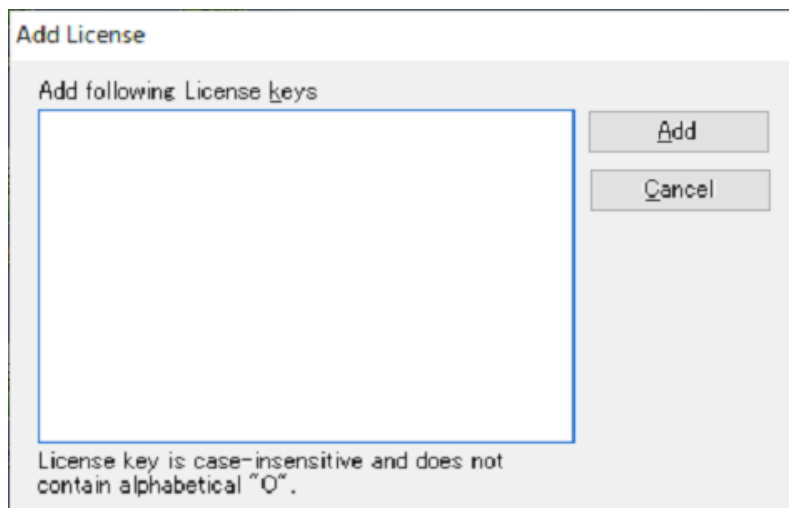
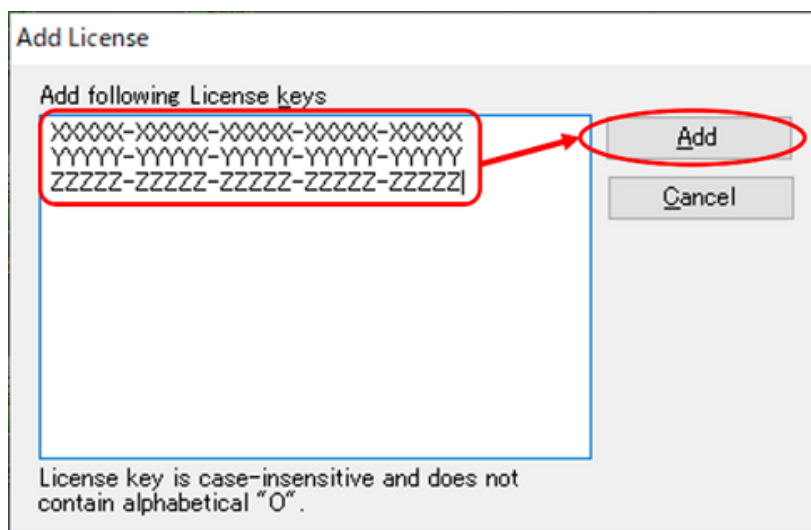


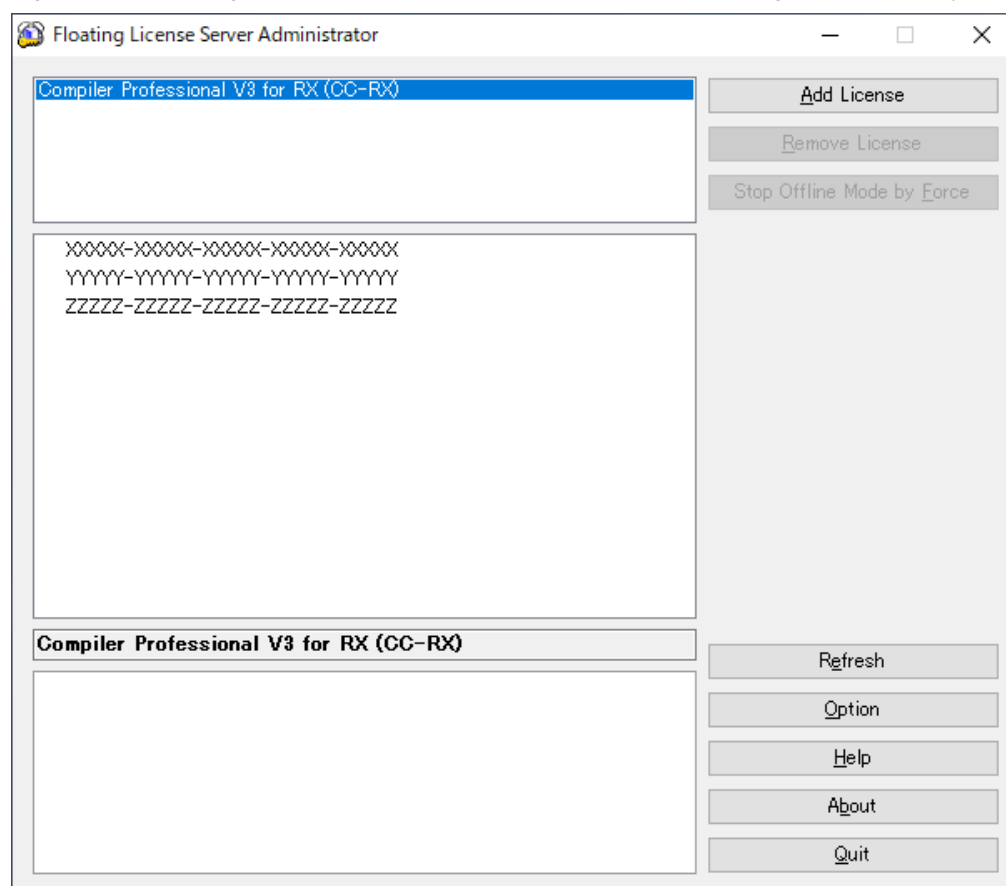
Figure 2.17 Enter the License Keys



- Caution 1.** Enter the license key compliant with the floating license. The Add License dialog box show the invalid key error if the non-compliant license key is entered.
- Caution 2.** To register an Upgrade (version) Floating License (permanent), a Floating License (permanent) must have been registered as the source of the upgrade. Start by adding the Floating License (permanent) to the floating license server or add the Upgrade (version) License and Floating License (permanent) at the same time.

The Add License dialog box will close, and the entered license key is added to the list in the Floating License Server Administrator window.

Figure 2.18 Floating License Server Administrator Window After Adding the License Keys



2.3.4 Assigning a floating license to the client

When the floating license server receive a license request from a client, the server assigns an unused license to the client.

The term of validity of a floating license is usually 30 minutes from the time that the license is acquired. The term of validity of a floating license (offline mode) is the number of days designated by the client (up to 99 days).

For details on operating the client, refer to the License Manager User's Manual.

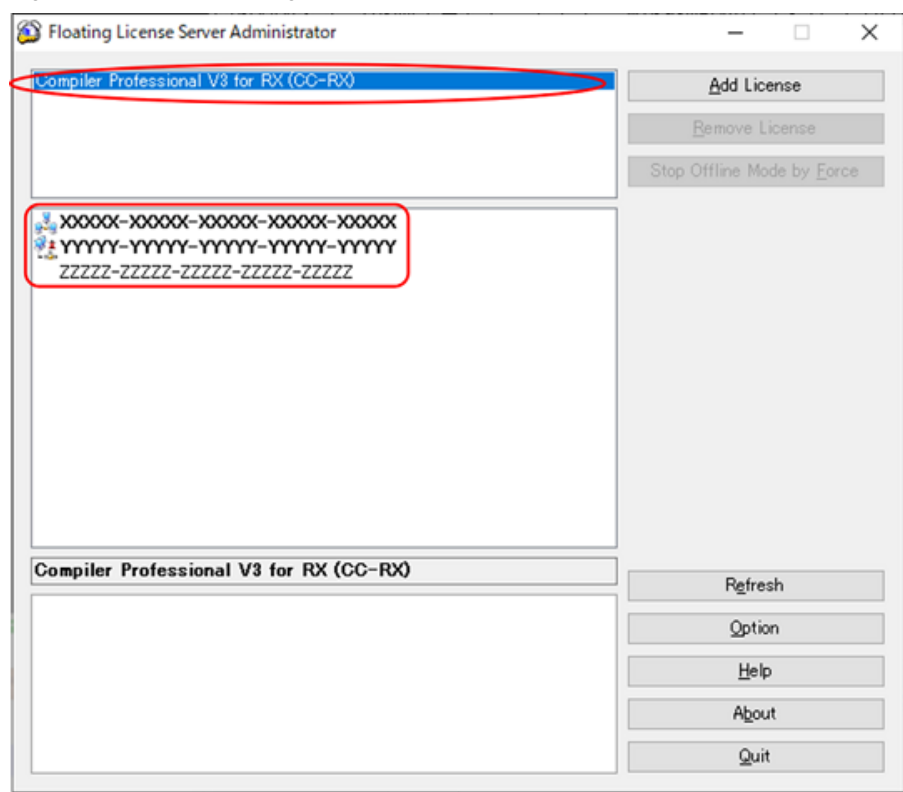
2.3.5 Confirming the states of the licenses

If a license name is selected, license keys are indicated in below.

A license in use is displayed in boldface, and the license status is indicated by an icon.

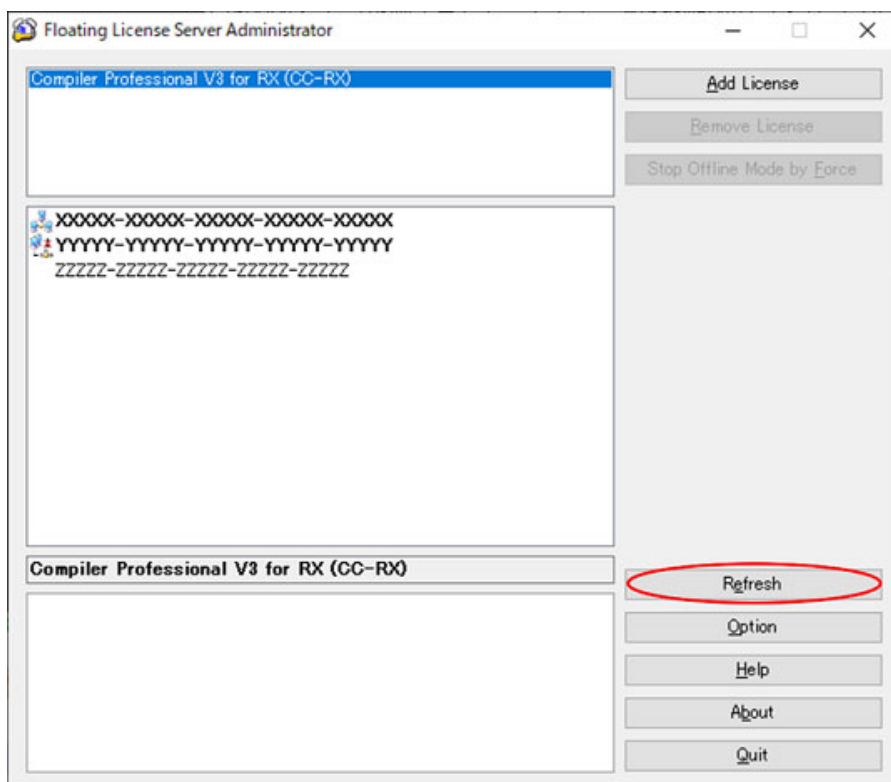
	Using In use as the a floating license.
	Using In use as the a floating license (offline license mode).
	The expiration date of an annual floating license is approaching.
	This annual floating license is no longer available because it is out of date.

Figure 2.19 License Usage Status



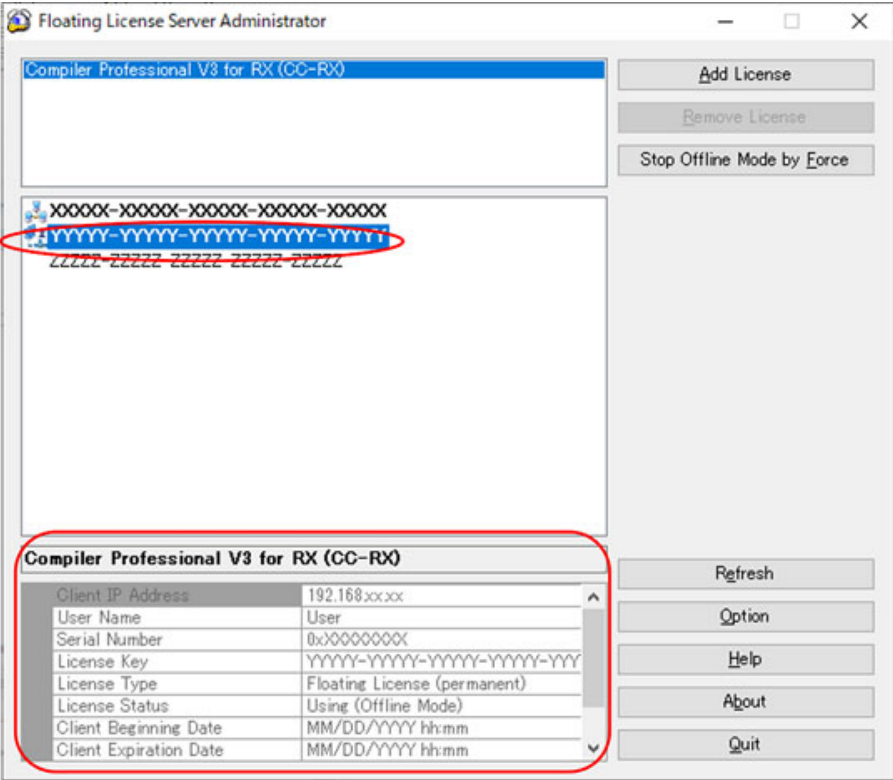
If the displayed contents of the GUI are old, click the [Refresh] button to update the displayed information.

Figure 2.20 Refresh the Displayed Information



Clicking on the license key displays the state of the license at the bottom of the window.

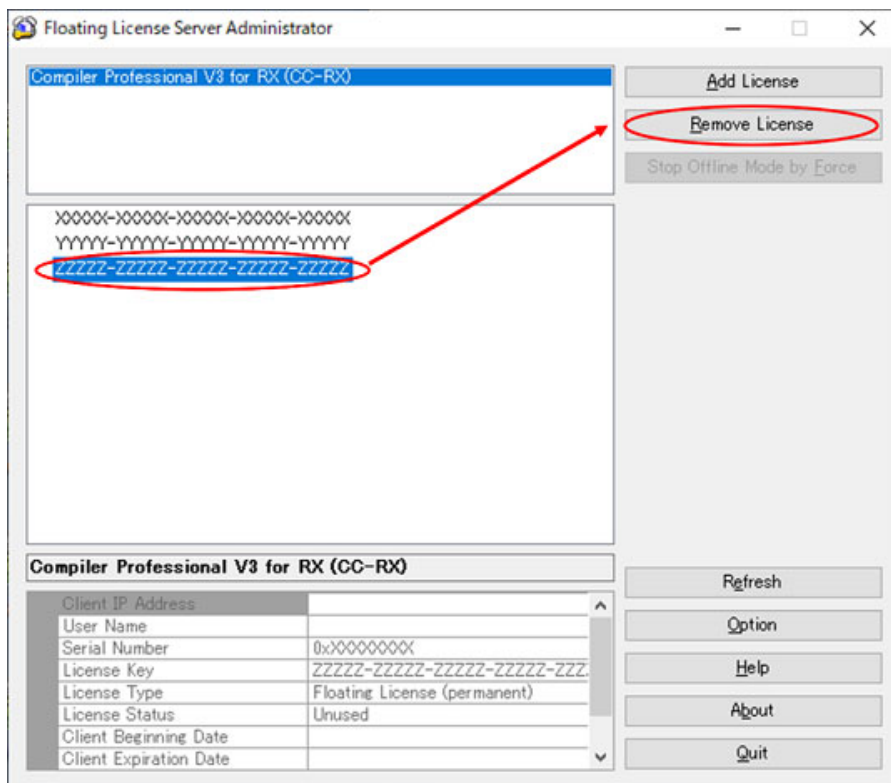
Figure 2.21 Detailed Information on the State of a License



2.3.6 Deleting a license

Select a license key on the Floating License Server Administrator window, and click the [Remove License] button.

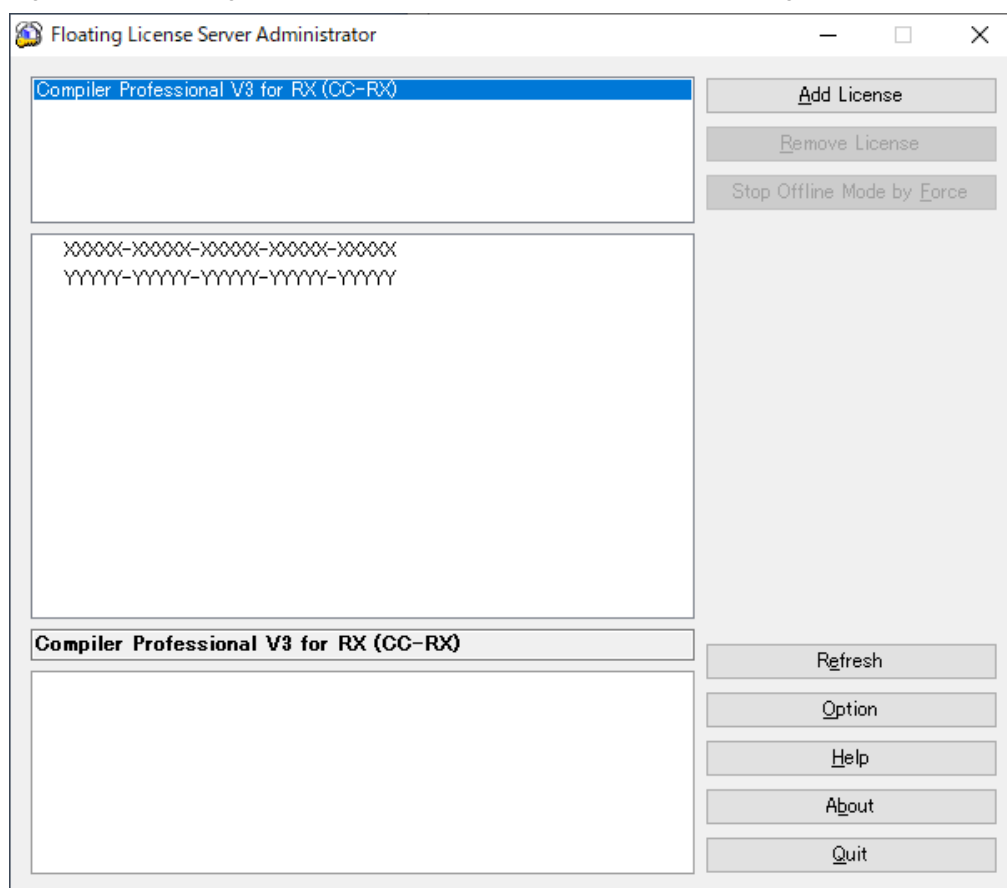
Figure 2.22 Floating License Server Administrator Window Before Deleting a License



Caution While an Upgrade (version) floating license (permanent) is registered, the floating license (permanent) that is the source of the upgrade cannot be deleted. Start by deleting the Upgrade (version) floating license (permanent).

The selected license key will be removed in the Floating License Server Administrator window, and the license is no longer subject to management by the license service.

Figure 2.23 Floating License Server Administrator Window After Deleting a License

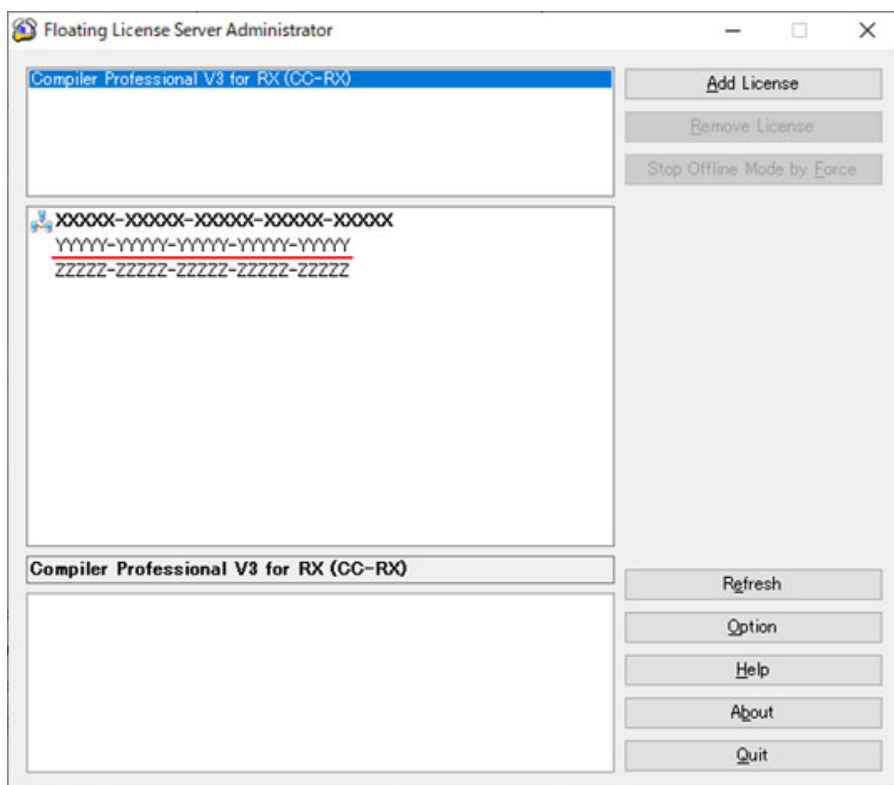


2.3.7 Forcibly leaving offline mode

Select a license key of the license in use as a floating license (offline mode) on the Floating License Server Administrator window, and click the [Stop Offline Mode by Force] button.

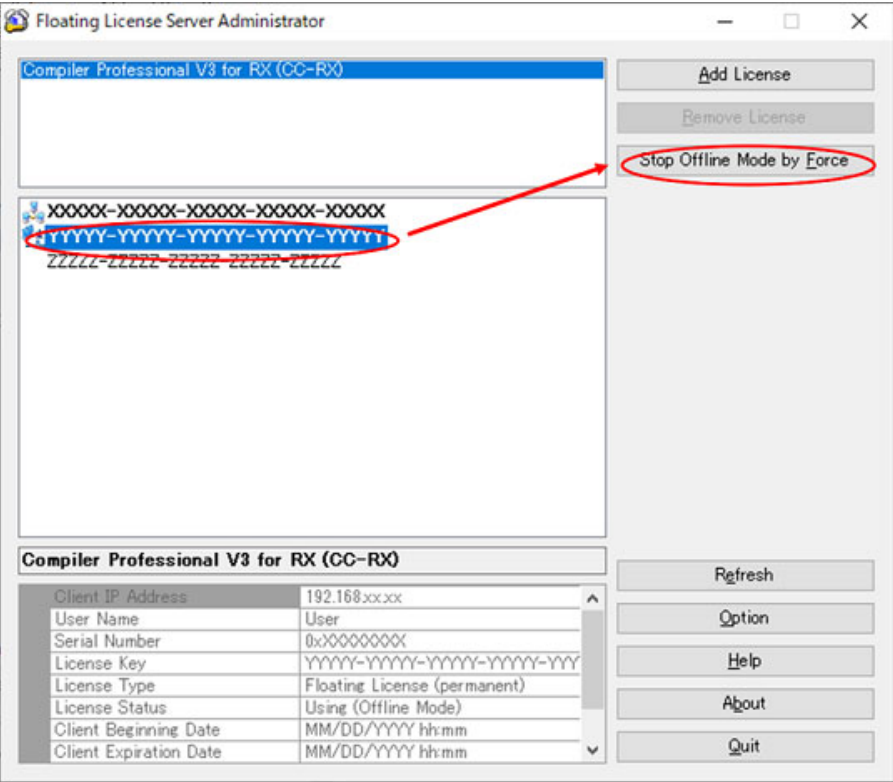
A license in use as a floating license cannot be released.

Figure 2.24 Floating License Server Administrator Window Before Forcibly Leaving a License



The selected license key will be unused.

Figure 2.25 Floating License Server Administrator windows After Forcibly Reaving a License



Caution This function should be used when a client cannot release a license because there was trouble in the client's PC. Normally, a license should be released from the client.

2.3.8 Saving the states of floating license usage

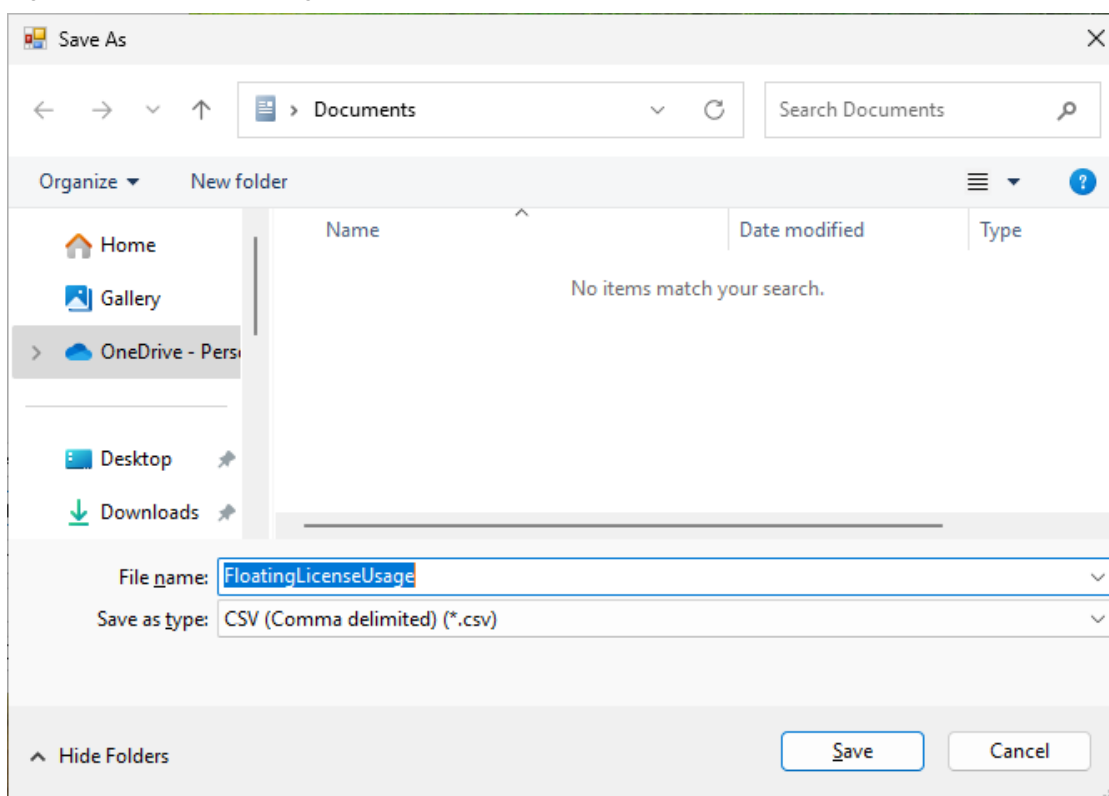
Log files which have been saved are read and transitions in the states of usage of floating licenses are extracted and output to the CSV files. Using a spreadsheet program such as Microsoft Excel to display the contents of the CSV files as graphs enables checking of transitions in the states of usage under each of the licenses.

Enter the dates and times to start and end logging in [Start date] and [End date] and click on the [Save] button in the Floating License Server Option dialog box.

Figure 2.26 Floating License Server Option Dialog Box

Specify the name of the CSV file and the directory for saving the file in the Save As dialog box and click on the [Save] button. Transitions in the number of licenses in use are then saved in the CSV file over the specified period.

Figure 2.27 Save As Dialog Box



The format of the CSV file is as follows.

```
, name of license 1, name of license 2, ...
date and time specified in [Start date],the number of machines holding licenses under license 1 at the start of logging,
the number of machines holding licenses under license 2 at the start of logging, ...
...
date and time when the number of licenses held changed, the number of machines holding licenses under license 1
before the change, the number of machines holding licenses under license 2 before the change, ...
date and time when the number of licenses held changed, the number of machines holding licenses under license 1
after the change, the number of machines holding licenses under license 2 after the change, ...
...
date and time specified in [End date],the number of machines holding licenses under license 1 at the end of logging,
the number of machines holding licenses under license 2 at the end of logging,...
```

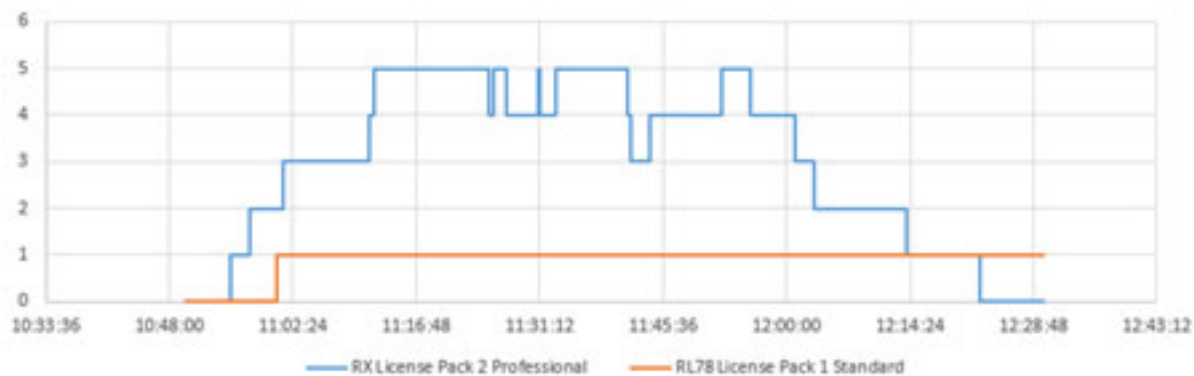
Two lines indicating date and time are output when the number of instances of usage of a license changes; the first line indicates the numbers of licenses in use before the change, and the second line indicates the numbers after the change.

Example of output

,RX License Pack 2 Professional,RL78 License Pack 1 Standard	2016/9/12 11:33:09,4,1
2016/9/12 10:50:00,0,0	2016/9/12 11:33:09,5,1
2016/9/12 10:55:11,0,0	2016/9/12 11:41:24,5,1
2016/9/12 10:55:11,1,0	2016/9/12 11:41:24,4,1
2016/9/12 10:57:23,1,0	2016/9/12 11:41:51,4,1
2016/9/12 10:57:23,2,0	2016/9/12 11:41:51,3,1
2016/9/12 11:00:34,2,0	2016/9/12 11:44:02,3,1
2016/9/12 11:00:34,2,1	2016/9/12 11:44:02,4,1
2016/9/12 11:01:13,2,1	2016/9/12 11:52:29,4,1
2016/9/12 11:01:13,3,1	2016/9/12 11:52:29,5,1
2016/9/12 11:11:23,3,1	2016/9/12 11:55:53,5,1
2016/9/12 11:11:23,4,1	2016/9/12 11:55:53,4,1
2016/9/12 11:11:50,4,1	2016/9/12 12:01:00,4,1
2016/9/12 11:11:50,5,1	2016/9/12 12:01:00,3,1
2016/9/12 11:25:12,5,1	2016/9/12 12:03:09,3,1
2016/9/12 11:25:12,4,1	2016/9/12 12:03:09,2,1
2016/9/12 11:25:53,4,1	2016/9/12 12:14:02,2,1
2016/9/12 11:25:53,5,1	2016/9/12 12:14:02,1,1
2016/9/12 11:27:25,5,1	2016/9/12 12:22:29,1,1
2016/9/12 11:27:25,4,1	2016/9/12 12:22:29,0,1
2016/9/12 11:31:00,4,1	2016/9/12 12:30:00,0,1
2016/9/12 11:31:00,5,1	
2016/9/12 11:31:13,5,1	
2016/9/12 11:31:13,4,1	

By using a spreadsheet program to convert this CSV file into a scatter diagram, a graph of usage can be created as shown below.

Figure 2.28 Scatter with Straight Lines Created by Microsoft Excel



2.3.9 Setting other options

Below is the description of other options of the floating license server.
In the Floating License Server Administrator window, click on the [Option] button.
The Floating License Server Option dialog box will open.

Figure 2.29 Floating License Option Dialog Box

In this dialog box, the following options can be set.

- [Offer the upper-level license if lower-level license is empty.] checkbox
Specifies that the server allows the client to use an upper-level license (ex. Professional) when the client requests a lower-level license (ex. Standard) and the server has no available lower-level license, but has an available upper-level license.
If this is checked, the server responds to the client to request an upper-level license.
If this is unchecked, the server responds to the client by an error.
- Caution** This option must be selected in cases where only a higher-level license (e.g. Professional) is registered on the server but the client is requesting a lower-level license (e.g. Standard). This applies in cases such as where some compiler options which require the Professional edition license are not enabled. This option is de-selected by default in V1.00.00 to V2.01.00 of the floating license server but is selected by default in V2.02.00 and later versions.
- [Publish usage to the license manager.] checkbox
Specifies whether or not the license manager of the client discloses the states of usage of the licenses when it displays candidates for use as floating licenses (offline mode).
If this is checked, the license usage status will be displayed after the license name.
If this is unchecked, only the license name will be displayed.
- [Folder for saving log file] text box
Specifies the path for the folder in which the log files are to be saved. If the [Browse] button is clicked, the folder can be specified in the Browse for folder dialog box.
Logs are recorded with the numerical part of the file name changed for every 3 Mbytes with a file name of "FloatingLicense.xxx.log" (xxx is a 3-digit numerical value).
- [Max log file size] spin box
Specifies the maximum size of log files. When recording a log immediately after the maximum size has been reached, the oldest log file is deleted to keep the file size within the size of this setting.
- [Save detailed status] checkbox
If this is checked, the internal operations of programs are also recorded. If this is unchecked, only acquiring and releasing of licenses and their results are recorded.

2.4 Resetting When the Server Is Changed

When the server is to be changed due to a failure or replacement, follow the procedure shown in this document again to start up the server and register license keys.

All of the licenses acquired in the old server become invalid the moment the client connects to the new server.

3. MESSAGES

This chapter describes internal error messages, fatal error messages, information messages and choice messages that Floating License outputs.

The message is output to the Message dialog box or log file, etc...

3.1 Message Types

The message types (1 alphabetic character) when Floating License is operated are as follows.

Table 3.1 Message Types

Message Type		Description
C	Internal error	Processing was terminated (suspended) due to an internal error.
E	Fatal error	Processing was terminated (suspended) due to a fatal error.
M	Information	Informational message. Check the message and continue process.
Q	Choice	This type of message is displayed when a choice is necessary in order to carry on with the next operation and run the selected action.

3.2 Internal Errors

Table 3.2 Internal Errors

C0171004	[Message]	Failed to load file. XXX
C0171005	[Message]	Failed to save file. XXX
C0190002	[Message]	XXX is too large.
C0190003	[Message]	XXX is too small.

3.3 Fatal Errors

Table 3.3 Fatal Errors

E0172012	[Message]	Failed to save CSV file. XXX
E0172013	[Message]	No log file in log folder.
E0172014	[Message]	Failed to write log file.
E0174010	[Message]	Failed to load option file. XXX
E0174011	[Message]	Failed to save option file. XXX
E0174012	[Message]	Failed to load license information. XXX
E0174013	[Message]	Failed to save license information. XXX
E0174014	[Message]	Failed to start license service. XXX
E0174100	[Message]	This license key is invalid. XXX
E0174101	[Message]	This license key is already registered. XXX
E0174102	[Message]	Can not delete the license in use. XXX
E0180010	[Message]	Failed to add the following license. To add an Upgrade (version) License, the license that is the source of the upgrade must be registered. XXX
E0180011	[Message]	Failed to delete the license. The license that is the source of the upgrade cannot be deleted before the Upgrade (version) License is deleted.
E0190002	[Message]	Managing the floating license server requires administrator privileges.

3.4 Information

Table 3.4 Information

M0191000	[Message]	Critical Error : XXX
M0191100	[Message]	Critical Error : XXX
M0191200	[Message]	Error : XXX
M0191300	[Message]	Error : XXX
M0191400	[Message]	Warning : XXX
M0191500	[Message]	Warning : XXX
M0191600	[Message]	Required license : XXX
M0191601	[Message]	Local license found.
M0191602	[Message]	Needs renewal.
M0191603	[Message]	Expired.
M0191604	[Message]	Invalid.
M0191605	[Message]	Released.
M0191606	[Message]	Upper level license : XXX
M0191607	[Message]	Get new license : XXX
M0191608	[Message]	Supported : XXX licenses
M0191700	[Message]	Request : XXX
M0191701	[Message]	Add client : XXX
M0191702	[Message]	Delete client : XXX
M0191703	[Message]	Client unknown.
M0191704	[Message]	Server id is invalid.
M0191705	[Message]	Target license is empty.
M0191706	[Message]	Upper level license is available
M0191707	[Message]	Assigned license (XXX/XXX) : XXX
M0191708	[Message]	Expired license : (XXX/XXX) : XXX
M0191709	[Message]	Released license : (XXX/XXX) : XXX
M0191800	[Message]	Command : XXX
M0191801	[Message]	Getting license : XXX
M0191802	[Message]	Connecting : XXX
M0191803	[Message]	Getting upper level license : XXX
M0191804	[Message]	Getting supported licenses : XXX
M0191805	[Message]	Getting license as offline mode : XXX
M0191806	[Message]	Releasing license : XXX
M0191900	[Message]	Starting service.
M0191901	[Message]	Starting HTTP listener.

M0191902	[Message]	Received HTTP request.
M0191903	[Message]	Received next request.
M0191904	[Message]	Getting license list.
M0191950	[Message]	Stop service.
M0191951	[Message]	Stop HTTP listener.
M0191952	[Message]	Bad HTTP request.
M0191953	[Message]	Unknown request.
M0191954	[Message]	Unknown client.
M0191955	[Message]	Invalid server ID.
M0191956	[Message]	Invalid : XXX
M0191957	[Message]	Released : XXX

3.5 Choices

Table 3.5 Choices

Q0174110	[Message]	This function should be used when a client cannot release a license because there was trouble in the client's PC. Normally, a license should be released from the client. Do you still want to continue?
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