

# License Manager V2.02.00

User's Manual

Target Device

78K0 Microcontroller

RL78 Family

78K0R Microcontroller

V850 Family

RX Family

RH850 Family

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# How to Use This Manual

This manual describes the role of the license for developing applications and systems for 78K0 microcontrollers, RL78 family, 78K0R microcontrollers, V850 family, RX family, and RH850 family, and provides an outline of its features.

|                         |                                                                                                                                                                            |                                                         |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Readers                 | This manual is intended for users who wish to using the IDE (CS+ or e <sup>2</sup> studio) and design software and hardware application systems.                           |                                                         |
| Purpose                 | This manual is intended to give users an understanding of the floating license to use for reference in developing the hardware or software of systems using these devices. |                                                         |
| Organization            | This manual can be broadly divided into the following units.<br><br><a href="#">1.GENERAL</a><br><a href="#">2.FUNCTIONS</a><br><a href="#">3.MESSAGE</a>                  |                                                         |
| 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 license of development environment for developing applications and systems for the microcontrollers.

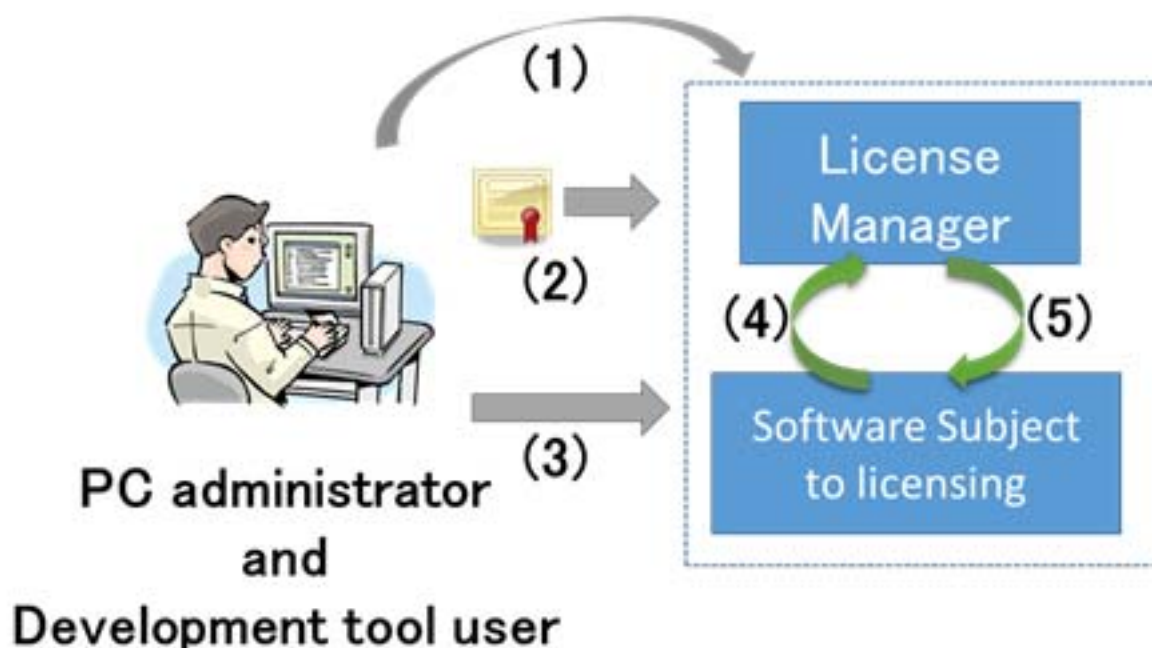
This manual describes how to manage floating licenses on the client side. For managing floating licenses on the server side, refer to the "Floating License Server V2.02.00 User's Manual".

### 1.1 Introduction

The license manager provides facilities for managing node locked licenses and floating licenses which are required to use tools related to the CS+ and e<sup>2</sup> studio integrated development environments for microcontrollers from Renesas.

A node locked license is a form of license where the license manager on a client manages the software license. If a license key is registered, functionality corresponding to the license is available; e.g. the manager eliminates restrictions on the amount of code for which linkage is possible on that client.

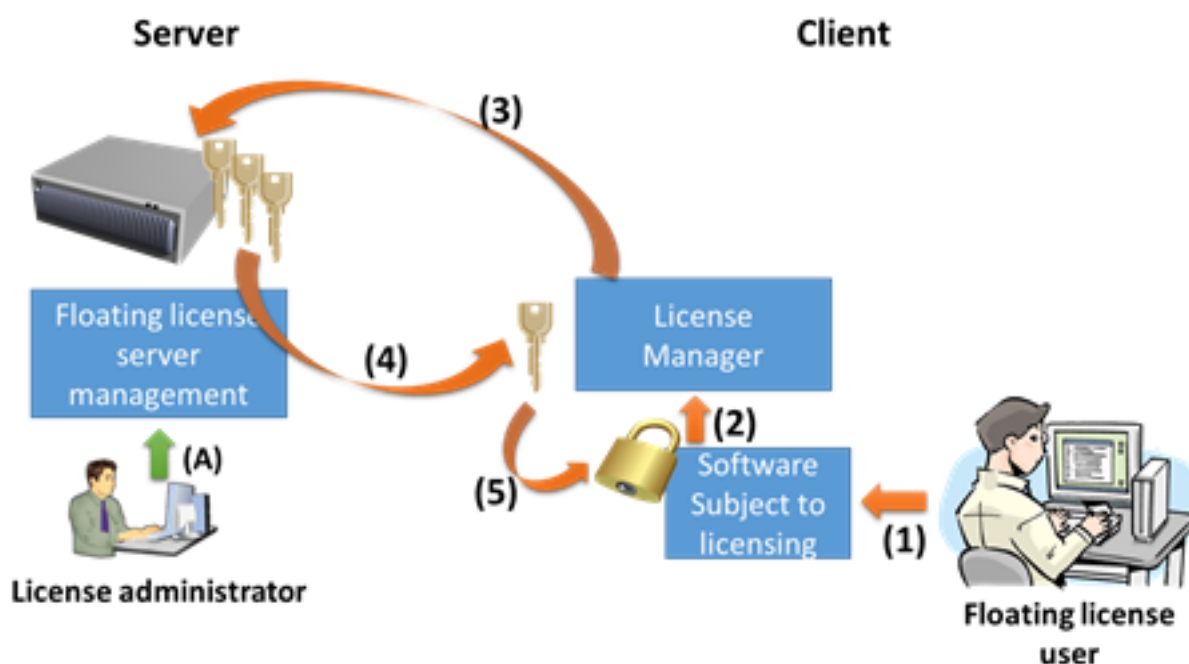
Figure 1.1 System Structure for Node Locked Licenses



- (1) Install development tool
- (2) Register license key
- (3) Launch development tool
- (4) License if confirmed
- (5) Confirmed or not

Floating licensing is a licensing approach in which a limited number of licenses for a software are managed by the server and any computer connected to the server can use the software within the number of the licenses.

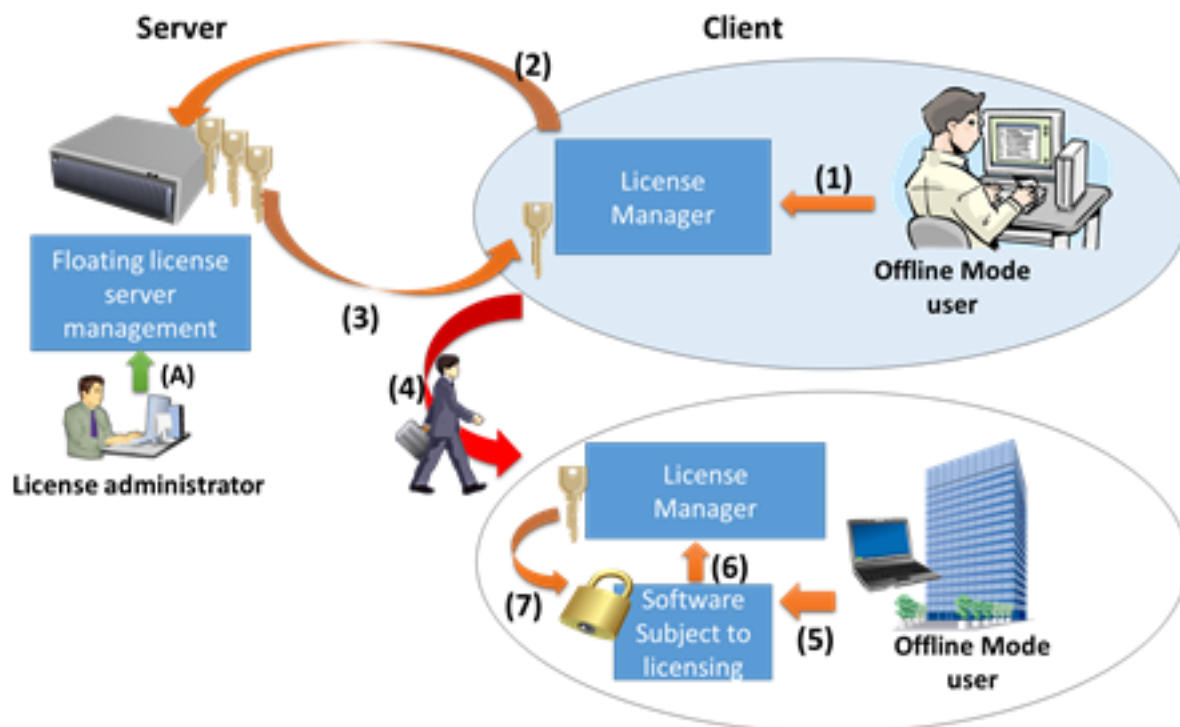
Figure 1.2 System Structure of Floating License



- (1)Launch
- (2)Request for license
- (3)Request for floating license
- (4)Floating license is granted
- (5)License if confirmed
- (A)License key is added

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 from the network environment.

Figure 1.3 System Structure of Floating License (Offline Mode)



- (1) Request for floating license (offline mode)
- (2) Request for floating license (offline mode)
- (3) Floating license (offline mode) is granted
- (4) Take out
- (5) Launch
- (6) Request for license
- (7) License is confirmed
- (A) License key is added

For both node locked and floating licenses, some licenses have no limit on the period of validity, while for others, the period is one year. Once the period of a time-limited license has expired, the development tool covered by the license cannot be used. To distinguish between the periods of validity, we denote the licenses with and without time limits as annual and permanent, respectively.

- Node Locked License (permanent)
- Node Locked License (annual)
- Floating License (permanent)
- Floating License (annual)

## 1.2 Operating Environment

A floating license operates in the following environment.

- Hardware
  - Processor of 1 GHz or higher
  - Main memory: Min. 1 Gbyte (Min. 2 Gbytes for 64-bit Windows), at least 2 Gbytes are recommended
  - Display: Resolution of 1024 x 768 or higher, at least 65536 colors
- OS
  - Windows 7 (32 bits and 64 bits): Professional and Enterprise
  - Windows 8.1 (32 bits and 64 bits): Pro and Enterprise
  - Windows 10 (32 bits and 64 bits): Pro and Enterprise
- Runtime library
  - .NET Framework 4.5.2
- Development environment
  - Node Locked License (permanent)
    - CA850
    - CX
    - CA78K0
    - CA78K0R
    - CC-RL
    - CC-RX
    - CC-RH
  - Node Locked License (annual)
    - CC-RL V1.01.00 or later
    - CC-RX V2.03.00 or later
    - CC-RH V1.02.00 or later
  - Floating License (permanent and annual)
    - CC-RL V1.01.00 or later
    - CC-RX V2.03.00 or later
    - CC-RH V1.02.00 or later
- License
  - Compiler V1 for RL78,78K (CA78K0R,CA78K0)  
Node Locked License (permanent)
  - Compiler V1 for V850 (CA850,CX)  
Node Locked License (permanent)
  - Compiler V1 for RL78 (CC-RL)  
Standard edition Node Locked License (permanent)  
Standard edition Node Locked License (annual)  
Standard edition Floating License (permanent)  
Standard edition Floating License (annual)  
Professional edition Node Locked License (permanent)  
Professional edition Node Locked License (annual)  
Professional edition Floating License (permanent)  
Professional edition Floating License (annual)  
Upgrade (edition) Professional edition Node Locked License (permanent)
  - Compiler V1 for RX (CC-RX)  
Node Locked License (permanent)



- Compiler V2 for RX (CC-RX) or later
  - Standard edition Node Locked License (permanent)
  - Standard edition Node Locked License (annual)
  - Standard edition Floating License (permanent)
  - Standard edition Floating License (annual)
  - Professional edition Node Locked License (permanent)
  - Professional edition Node Locked License (annual)
  - Professional edition Floating License (permanent)
  - Professional edition Floating License (annual)
  - Upgrade (edition) Professional edition Node Locked License (permanent)
- Compiler V1 for RH850 (CC-RH)
  - Standard edition Node Locked License (permanent)
  - Standard edition Node Locked License (annual)
  - Standard edition Floating License (permanent)
  - Standard edition Floating License (annual)
  - Professional edition Node Locked License (permanent)
  - Professional edition Node Locked License (annual)
  - Professional edition Floating License (permanent)
  - Professional edition Floating License (annual)
  - Upgrade (edition) Professional edition Node Locked License (permanent)
- Compiler V2 for RH850 (CC-RH) or later
  - Standard edition Node Locked License (permanent)
  - Standard edition Node Locked License (annual)
  - Standard edition Floating License (permanent)
  - Standard edition Floating License (annual)
  - Professional edition Node Locked License (permanent)
  - Professional edition Node Locked License (annual)
  - Professional edition Floating License (permanent)
  - Professional edition Floating License (annual)
  - Upgrade (edition) Professional edition Node Locked License (permanent)
  - Upgrade (version) Standard edition Node Locked License (permanent)
  - Upgrade (version) Professional edition Node Locked License (permanent)
  - Upgrade (version) Standard edition Floating License (permanent)
  - Upgrade (version) Professional edition Floating License (permanent)

Registering the Upgrade (edition) Professional edition node locked license (permanent) and the Standard edition node locked license (permanent) for a given compiler with the license manager allows you to use the corresponding Professional edition node locked license (permanent).

**Caution** The Upgrade (edition) Professional edition node locked license (permanent) does not work in combination with the Standard edition floating license or Standard edition node locked license (annual).

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

| Upgrade (version) Node Locked License (permanent)            | Node Locked License (permanent) that is the source of the upgrade                                       | Node Locked License (permanent) that is the destination of the upgrade |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 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)                             |
|                                                              | Compiler Standard V1 for RH850 (CC-RH) and Compiler Upgrade (edition) 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 license manager, 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) Node Locked License (permanent) cannot be used in combination with a floating license or a Node Locked License (permanent).

## 2. FUNCTIONS

This chapter describes functions of a license manager.

### 2.1 Installing License Manager

Install the license manager which is included in the installer for the CS+ IDE, or with a package for a stand-alone language tool.

The preparing for installation window automatically appears. If this does not happen, double-click on "Setup.exe" in the root directory of the CD.

**Caution** The floating license client setup must be conducted with administrator privileges.

### 2.2 Uninstalling License Manager

You can uninstall the license manager using [Programs and Features] in the control panel. Select "Renesas MCU Tools License Manager" and click the [Uninstall] button.

**Caution** Uninstalling the floating license client must be conducted with administrator privileges.

## 2.3 Using a License Manager

This section describes how to use a license manager.

### 2.3.1 Launching a License Manager

The License Manager window is started as follows.

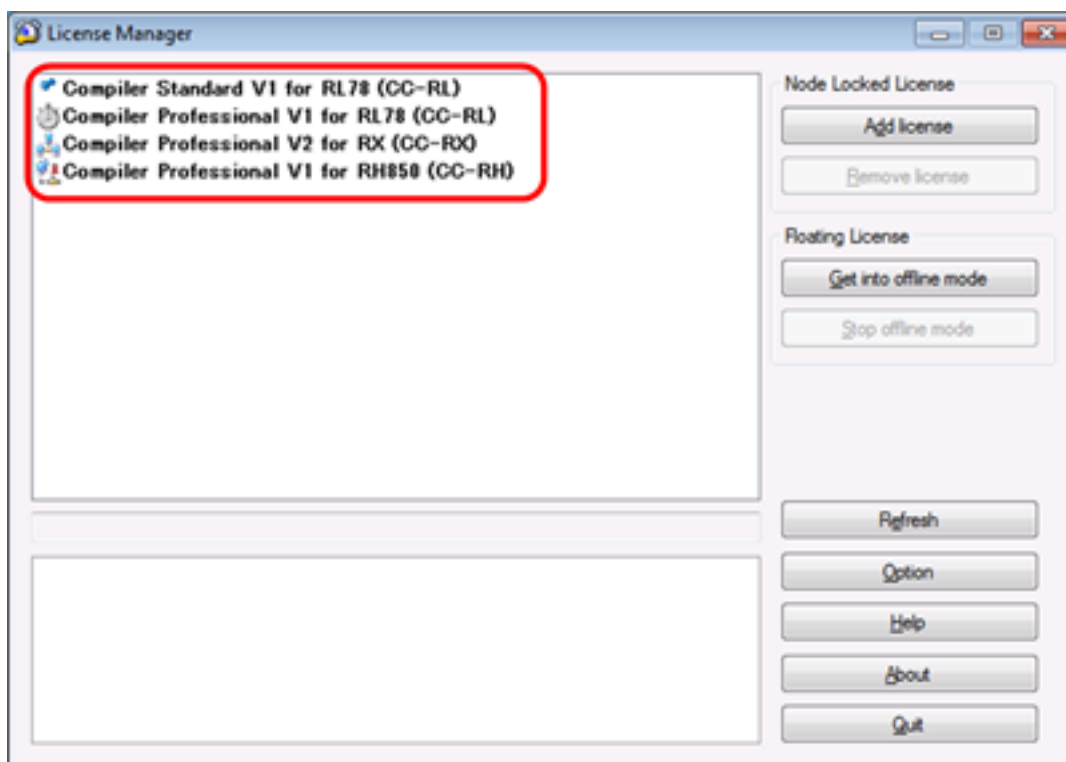
- From the [Start] menu of Windows, select [Programs] >> [Renesas Electronics Utilities] >> [Renesas License Manager].

**Remark** In Windows 8.1, select [Renesas License Manager] on the start screen.  
In Windows 10, select Windows [Start] menu >> [All apps] >> [Renesas Electronics Utilities] >> [Renesas License Manager].

### 2.3.2 Confirming the status

When the License Manager window opens, it displays a list of valid registered licenses in the licenses area.

Figure 2.1 License Manager Window



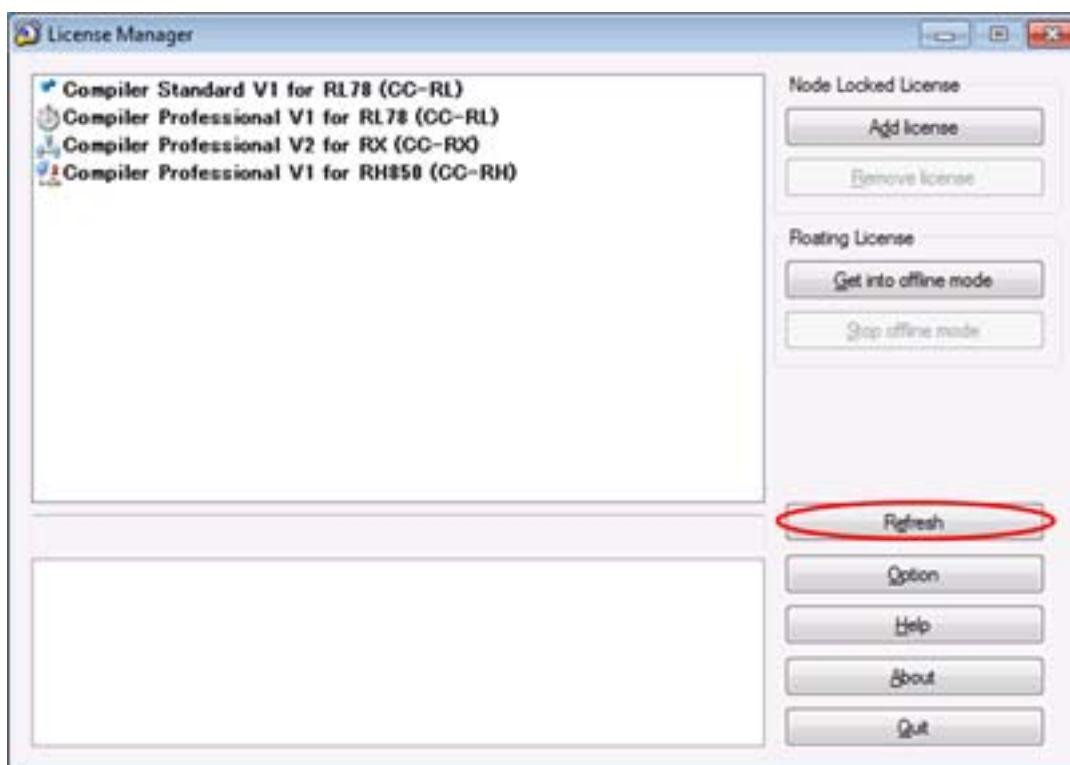
The license name is displayed by a bold font, and the license status is indicated by an icon.

|                                                                                     |                                              |
|-------------------------------------------------------------------------------------|----------------------------------------------|
|  | In use as a Node Locked License (permanent). |
|  | In use as a Node Locked License (annual).    |

|                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | In use as a Node Locked License (annual) (the expiration date is approaching).      |
|  | This Node Locked License (annual) is no longer available because it is out of date. |
|  | Using as the floating license.                                                      |
|  | Using as the offline license.                                                       |

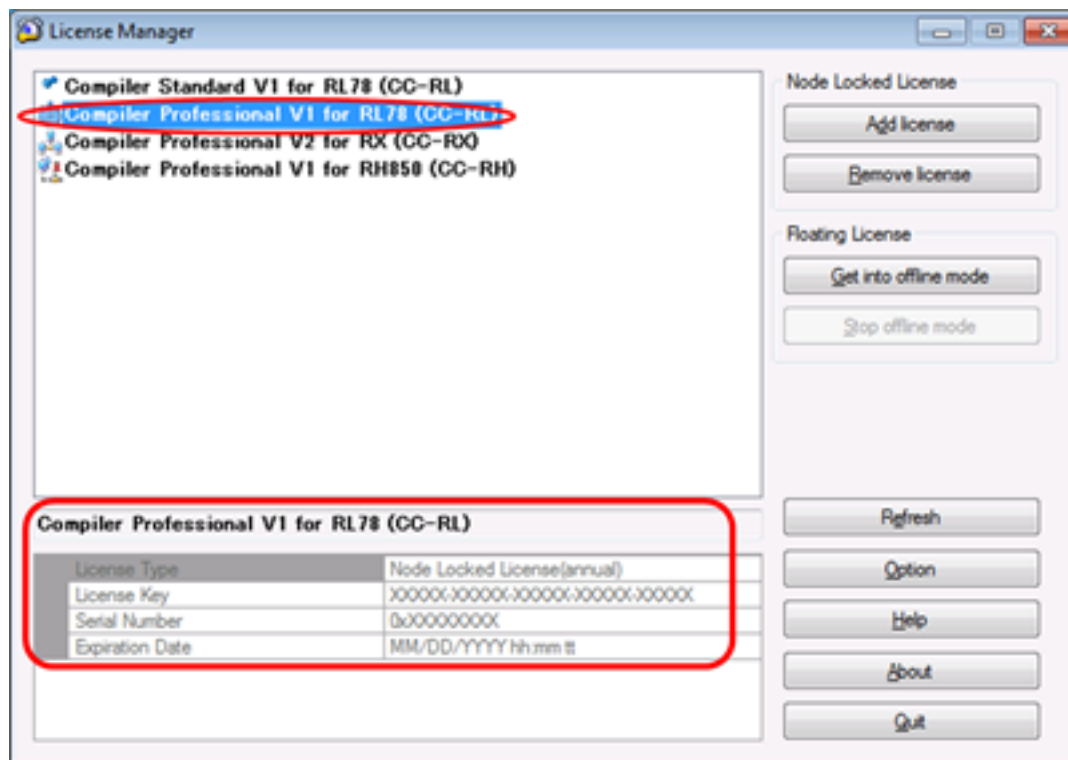
If the displayed contents of the GUI are old, click the [Refresh] button to update the displayed information.

Figure 2.2 Refresh the Displayed Information



And click the license name. The license status is displayed in the bottom part of the window.

Figure 2.3 Detailed Information for the License Status



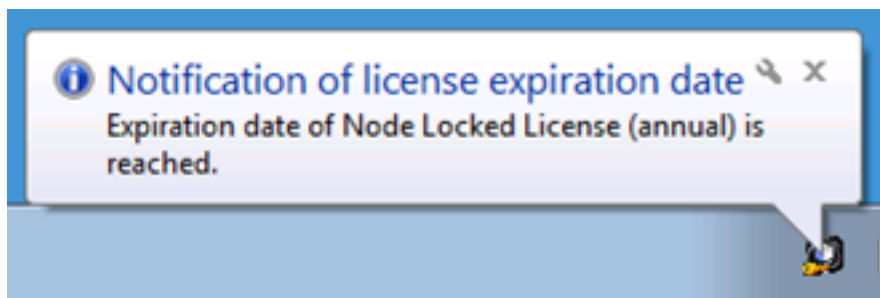
The following functionality will be restricted if a license is not registered.

| Compilers                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Evaluation Period                                                                                                                                                                                                                                                                                               |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CC-RL<br>CC-RX<br>CC-RH          | Depending on the type of MCU, the free evaluation version is subject to the following limitations:<br>[RH850 Family]<br>The size of linkable object is limited to 256 KB. The functions of professional edition aren't supported.<br>[RX Family]<br>The size of linkable object is limited to 128 KB. The functions of professional edition aren't supported.<br>[RL78 Family]<br>The size of linkable object is limited to 64 KB. The functions of professional edition aren't supported. | 60 Days<br>Expires 60 days after the first build following the initial installation of the evaluation version.<br>Fully functional during the evaluation period.<br>The size of linkable object is reduced to 64KB or less and the functions of professional edition aren't supported on or after the 61st day. |
| CA78K0<br>CA78K0R<br>CA850<br>CX | Depending on the type of MCU, the free evaluation version is subject to the following limitations:<br>[V850 Family]<br>The maximum object size that can be generated is 256 KB.<br>[RL78 Family, 78K0R, 78K0]<br>The scope of available memory is restricted to 64 KB of the internal ROM (0-FFFFh) and to the internal RAM.                                                                                                                                                               | No time limit<br>(The size of a linkable object is limited.)                                                                                                                                                                                                                                                    |

### 2.3.3 Confirming information on the expiration of annual licenses

The user is informed of the approaching expiration of an annual license by display of the  icon and  balloon help.

Figure 2.4 [Expiration of an Annual License] Information Icon



Clicking on the  icon or  balloon help shows information on the license that will soon expire.

The user is informed of the approaching expiry of annual licenses at the following times: one month, two weeks, and one day before expiration.

However, if the date of expiration is within one of the above periods before the previous period has been indicated, the earlier notification is skipped. For example, if there are two weeks until expiration but the notification of one month until expiration has not been given, the latter notification is skipped and two weeks until expiration is indicated. If an annual license becomes out of date before the notification of one day before expiration has been displayed, the notification is that the license is already out of date.

### 2.3.4 Add a node locked license

In the License Manager window, click the [Add license] button, and enter a license key in the [Add following License keys] text box, then click the [Add] button to add the license.

Figure 2.5 License Manger Window

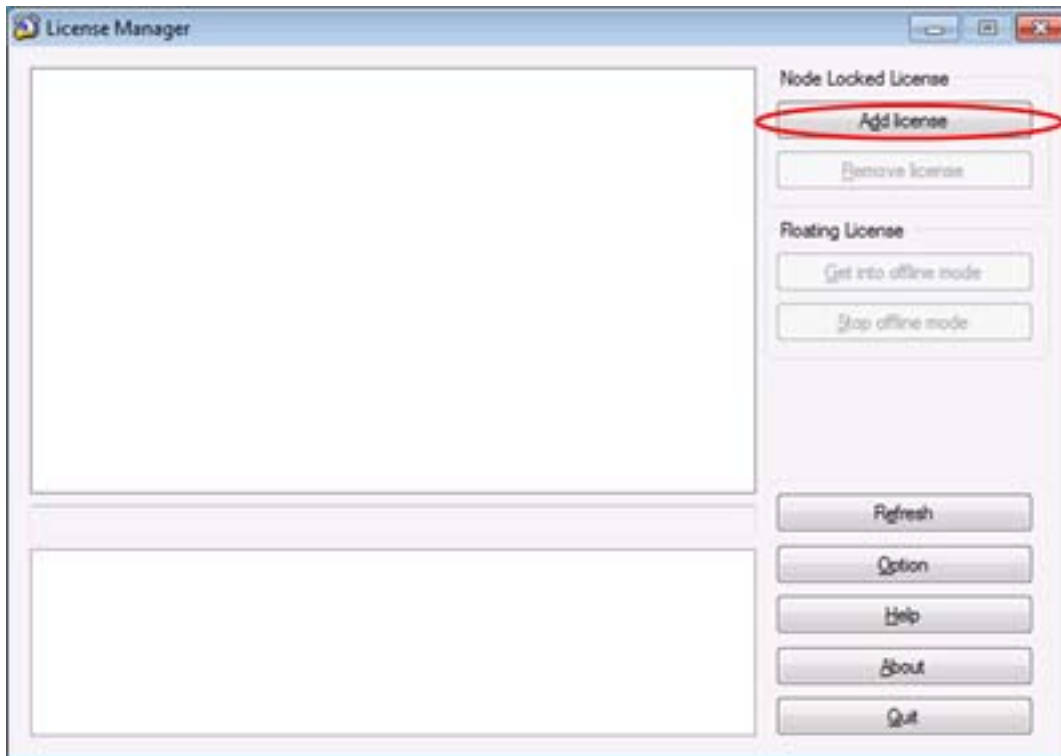
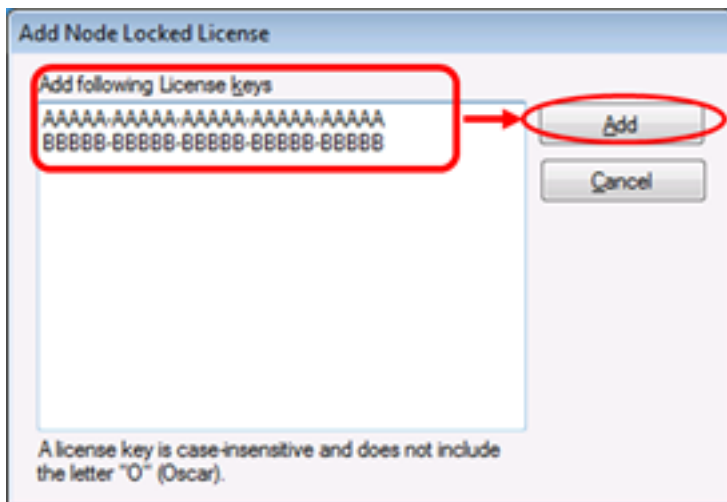


Figure 2.6 Add Node Locked License Dialog Box





The SOFTWARE LICENSE AGREEMENT dialog box appears if you have not yet accepted the license agreement for addition of a node locked license.

Figure 2.7 SOFTWARE LICENSE AGREEMENT Dialog Box

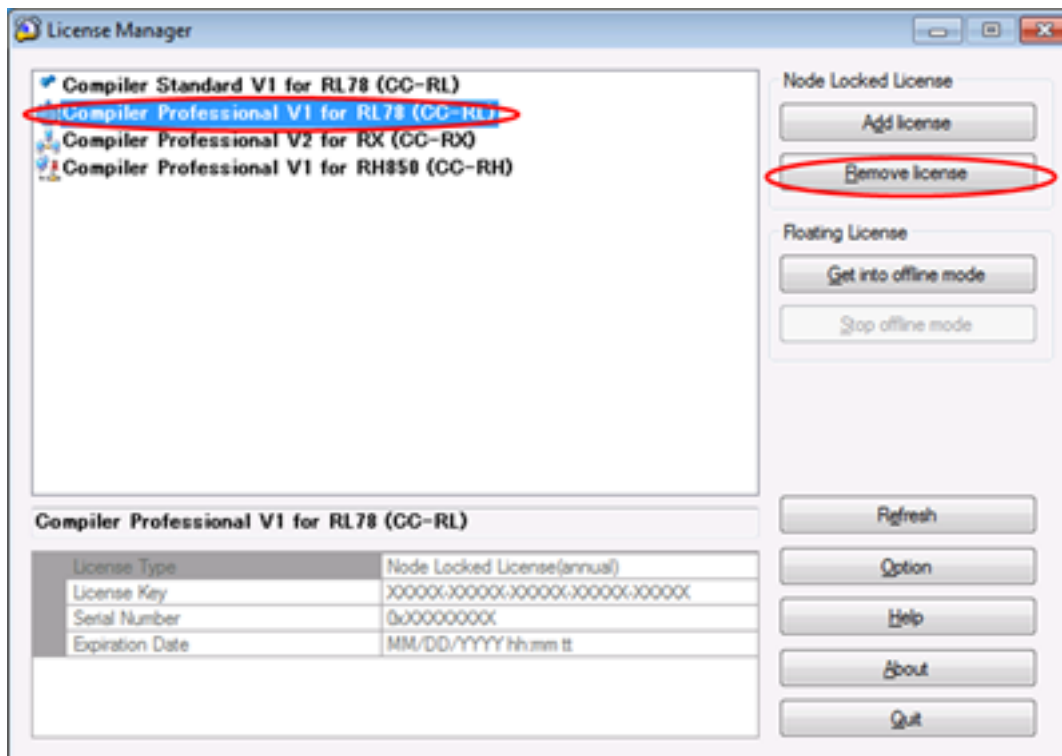


Select [Accept] and click on the [OK] button. The node locked license you have added is now available.

### 2.3.5 Delete a node locked license

In the License Manager window, select the license you wish to delete from the licenses area, then click the [Remove License] button to delete the license.

Figure 2.8 License Manager Window



**Caution** While an Upgrade (version) Node Locked License (permanent) is registered, the Node Locked License (permanent) that is the source of the upgrade cannot be deleted. Start by deleting the Upgrade (version) Node Locked License (permanent).

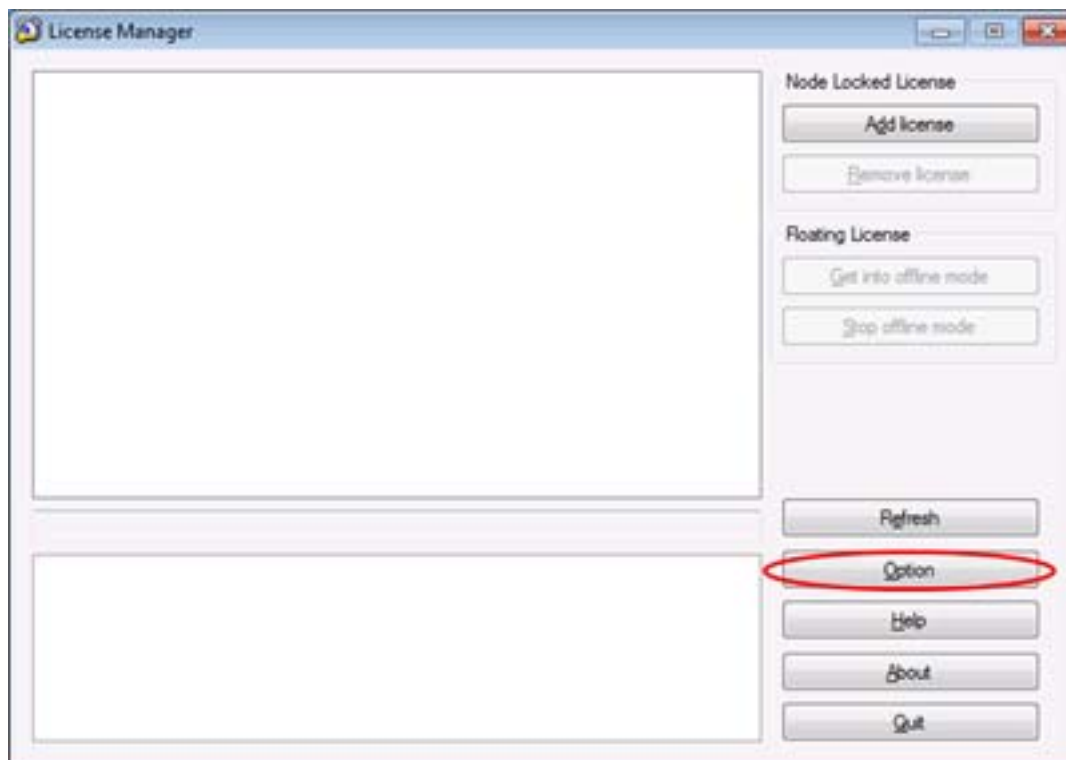
### 2.3.6 Setting up the floating license

The following initial settings are required to use a floating license.

**Caution** Set up the client after the server settings was finished.

- (1) Open the License Manager Option dialog box  
In the License Manager window, click the [Option] button

Figure 2.9 License Manger Window

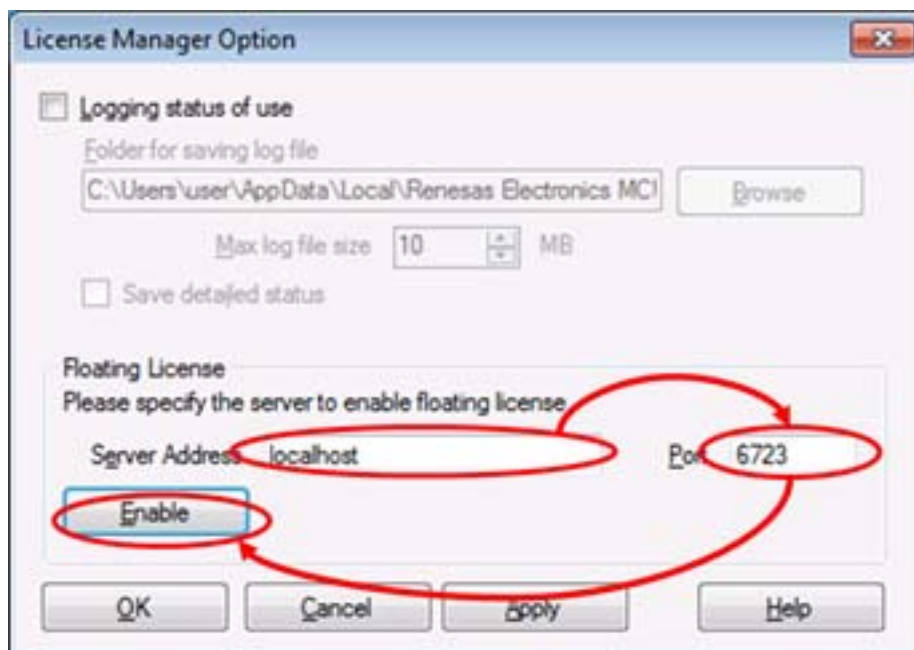


The License Manager Option dialog box will open.

- (2) Connect the license server  
Enter the IP address (example: 192.168.0.1) or host name (example: license.example.com) of the license server into [Server Address], the port number specified by the license server administrator into [Port]. If you don't know, please contact the license server administrator.

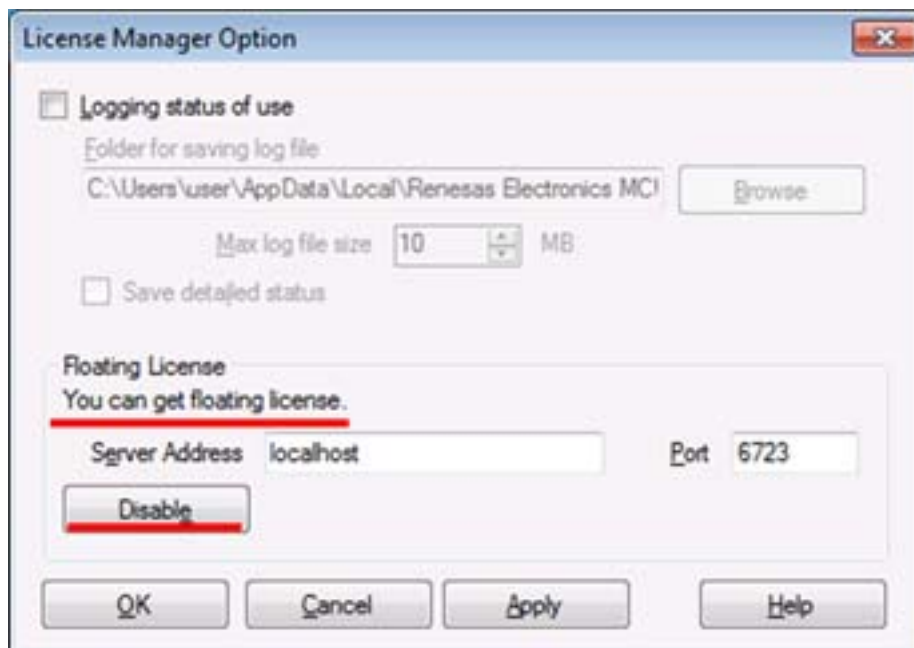
Click the [Enable] button.

Figure 2.10 License Manager Option Dialog Box (Disabled)



When connection to the license server is successful, the display changes to that shown on the below.

Figure 2.11 License Manager Option Dialog Box (Enabled)



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

### 2.3.7 Acquiring a floating license

You don't need to take a particular action to acquire a floating license.

Starting the software subject to licensing automatically acquires a floating license. The term of validity is 30 minutes from the time that the license is acquired.

The license will be returned automatically when the term of validity expires. If the license will be required, the software subject to licensing automatically acquires a floating license again.

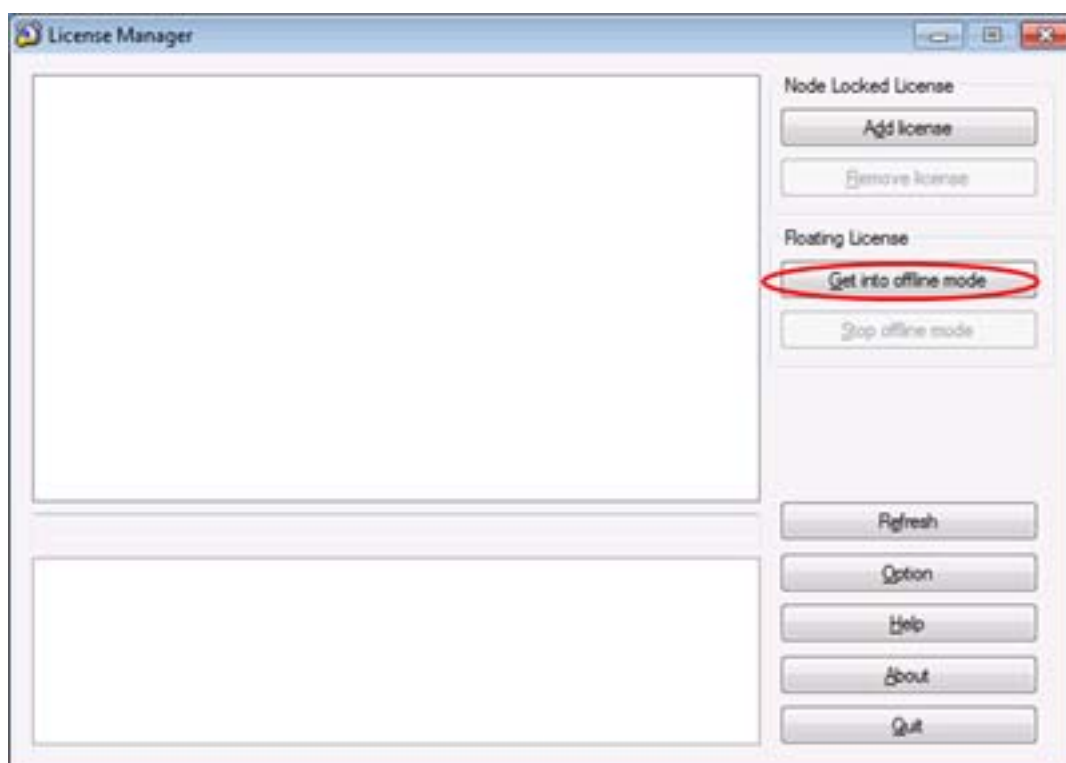
### 2.3.8 Acquiring a floating license for use in offline mode

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 from the network environment.

- (1) Open the Get into offline mode dialog box

When the client is connected to the server, click the [Get into offline mode] button in the License Manager window.

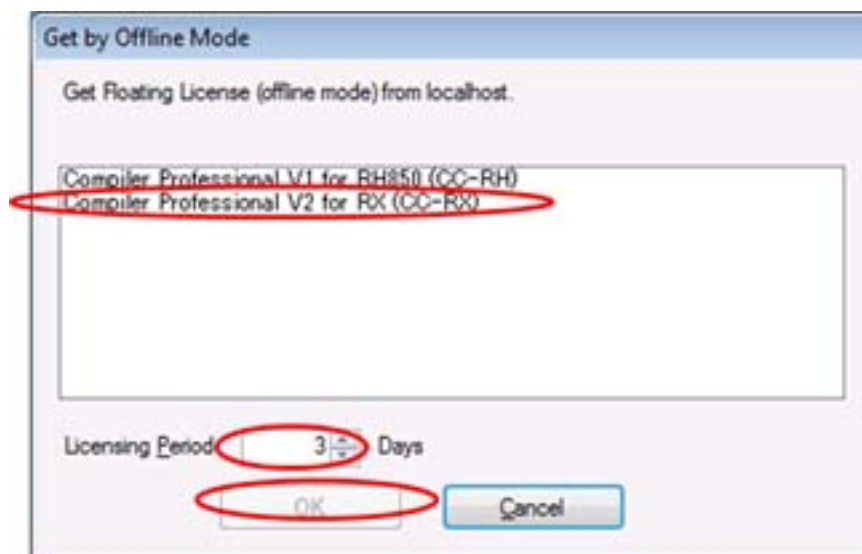
Figure 2.12 License Manager Window Before Acquiring an Floating License (Offline Mode)



The Get into offline mode dialog box will open.

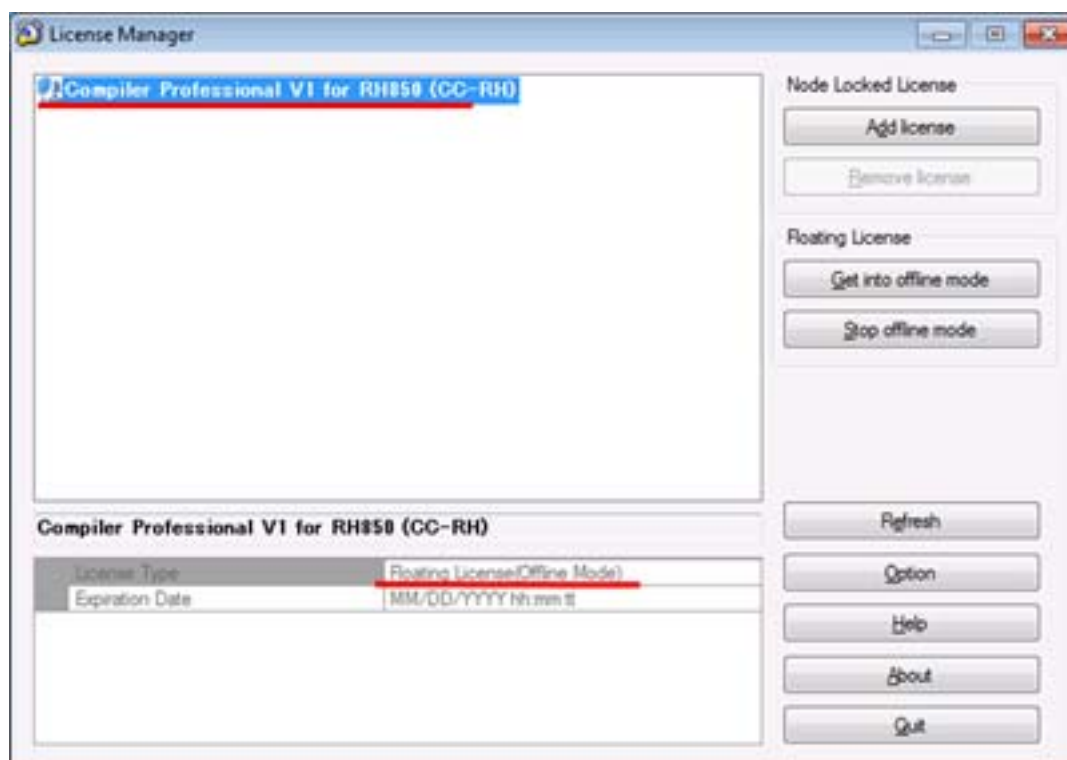
- (2) Select the license name and enter the license period  
 Select the license name, enter the period of use in offline mode (max. 99 days) in [Licensing Period], and click on the [OK] button.

Figure 2.13 Get into Offline Mode Dialog Box



The floating license (offline mode) is acquired from the server and the License Manager window is updated. During the valid period of the offline license, the license can be ongoingly used even in a circumstance where the license server cannot be connected.

Figure 2.14 License Manager Window after Acquiring an Offline License



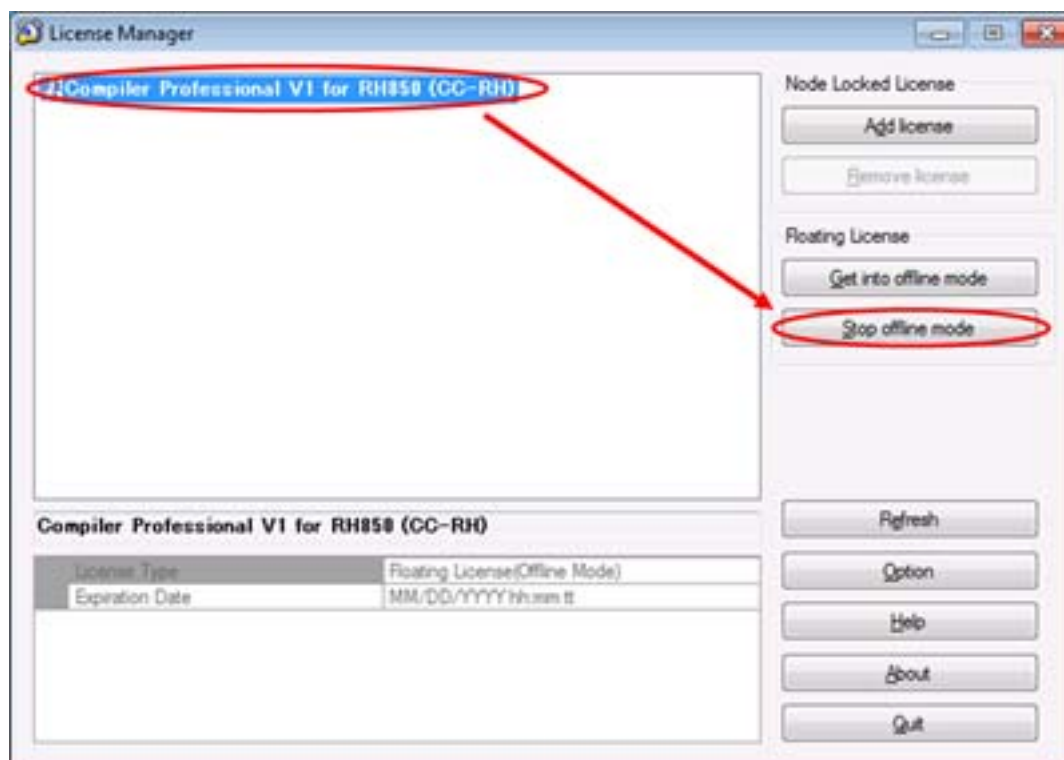
The license will be returned automatically when the license was out of date.

### 2.3.9 Ending use of a floating license in offline mode

The acquired floating license (offline mode) is automatically returned to the server when it expires. You can also manually end usage in the offline mode and return the floating license before it expires.

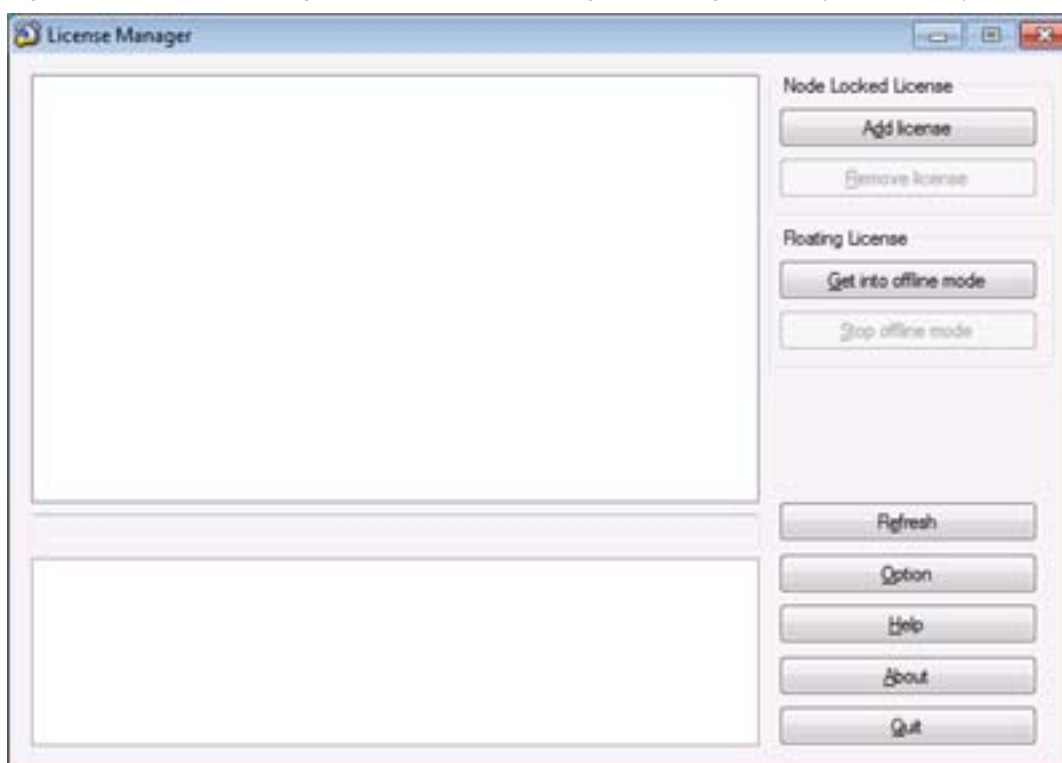
When the client is connected to the server, click the license name and the [Stop offline mode] button in the License Manager window.

Figure 2.15 License Manager Window Before Releasing an Floating License (Offline Mode)



An floating license (offline mode) is returned to the server, and the displayed information in License Manager window is updated.

Figure 2.16 License Manager Window After Releasing an Floating License (Offline Mode)





### 2.3.10 Indicating mismatches between versions registered with the license manager and the floating license server

The  balloon help that pops up from the  icon indicates mismatches between versions registered with the license manager and the floating license server.

Figure 2.17 [Notification regarding the version of the license manager] Information Icon

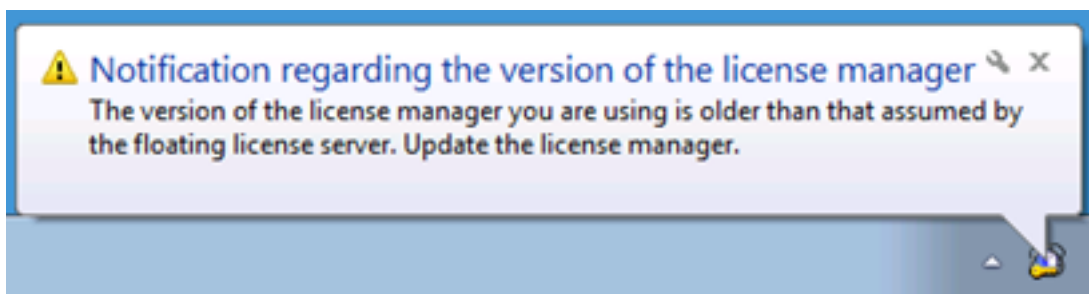
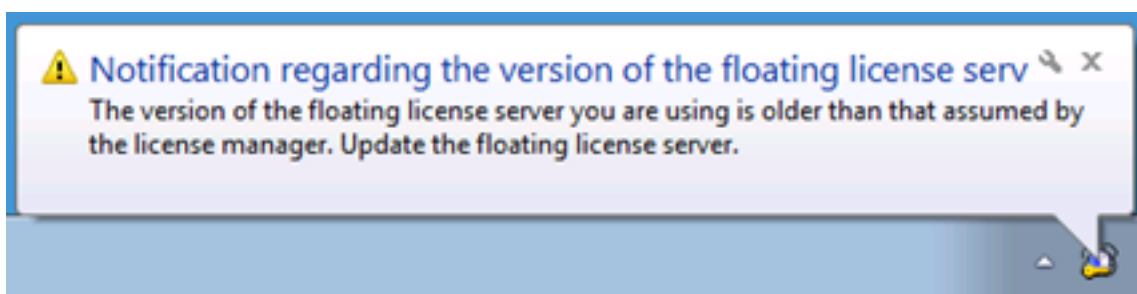


Figure 2.18 [Notification regarding the version of the floating license server] Information Icon

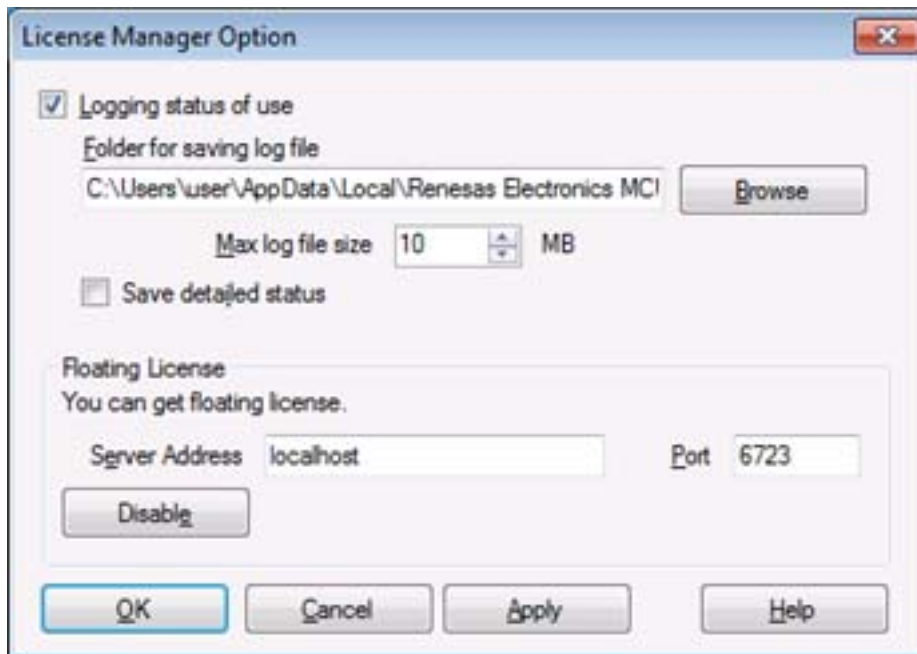


Clicking on the  icon or  balloon help will produce a message dialog box.

### 2.3.11 Change options

Below is the description of other options of the floating license client.  
In the License Manager window, click the [Option] button.  
The License Manager Option dialog box will open.

Figure 2.19 License Manager Option Dialog Box



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

- [Logging status of use] checkbox  
If this checkbox is selected, the states of usage of the licenses are recorded in a log file. If this checkbox is not selected, a log file is not saved.
- [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 checkbox is selected, details of the internal operation of the programs are also recorded. If this checkbox is not selected, only the requests from clients and the responses are recorded.

## 2.4 Resetting When the Server Is Changed

When the server has been changed due to a failure or replacement, enter the new server's [Server Address] and [Port] in the License Manager Option dialog box. After the settings have been changed, all existing licenses are revoked.

## 3. MESSAGE

This chapter describes internal error messages, fatal error messages, abort error messages, information messages, choice messages and warning 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 Type

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

### 3.2 Internal Errors

Table 3.2 Internal Errors

|          |           |                                                                               |
|----------|-----------|-------------------------------------------------------------------------------|
| C0171000 | [Message] | An internal error occurred.<br>Failed to get a license.<br>XXX                |
| C0171001 | [Message] | An internal error occurred.<br>Failed to send license request.<br>XXX         |
| C0171002 | [Message] | An internal error occurred.<br>Failed to send license request.                |
| C0171003 | [Message] | An internal error occurred.<br>Failed to respond to a license request.<br>XXX |
| C0190000 | [Message] | Specified device is invalid.                                                  |
| C0190001 | [Message] | XXX is empty.                                                                 |
| C0190002 | [Message] | XXX is too large.                                                             |
| C0190003 | [Message] | XXX is too small.                                                             |

### 3.3 Fatal Errors

Table 3.3 Fatal Errors

|          |                  |                                                             |
|----------|------------------|-------------------------------------------------------------|
| E0172000 | [Message]        | Getting a license is timed out.                             |
| E0172001 | [Message]        | Command-line option is invalid.                             |
| E0172002 | [Message]        | Failed to load license file.                                |
| E0172003 | [Message]        | Failed to load option file.<br>XXX                          |
| E0172004 | [Message]        | Failed to load option file.<br>XXX                          |
| E0172005 | [Message]        | Failed to save option file.<br>XXX                          |
| E0172006 | [Message]        | Failed to save option file.<br>XXX                          |
| E0172007 | [Message]        | Failed to load license information.<br>XXX                  |
| E0172008 | [Message]        | Server address or port settings is invalid.<br>XXX          |
| E0172009 | [Message]        | Failed to save license information.<br>XXX                  |
| E0172010 | [Message]        | Server address or port settings is invalid.<br>XXX          |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box. |

|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E0172011 | [Message]        | Failed to receive response from license server.<br>XXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| E0172012 | [Message]        | Failed to save CSV file.<br>XXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| E0172013 | [Message]        | No log file in log folder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| E0172020 | [Message]        | Response from license server is invalid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| E0172021 | [Message]        | Response from license server is invalid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| E0172022 | [Message]        | No available license in license server.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E0172023 | [Message]        | No available license in license server.<br>But upper level license is available.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| E0172024 | [Message]        | License server respond invalid server.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|          | [Action by User] | Disable the floating license in the option dialog box and enable it again.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| E0172025 | [Message]        | License server respond invalid client.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|          | [Action by User] | Disable the floating license in the option dialog box and enable it again.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| E0172026 | [Message]        | Clock gap between server and client is too large.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|          | [Action by User] | Check the client PC's clock.<br>If the clock is correct, ask the floating license server administrator to check the server PC's clock.                                                                                                                                                                                                                                                                                                                                                                                  |
| E0172027 | [Message]        | License server respond unknown license.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|          | [Action by User] | The licence server version may be old.<br>Ask the floating license server administrator to check the version of the floating license.                                                                                                                                                                                                                                                                                                                                                                                   |
| E0172028 | [Message]        | License is out of date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E0172040 | [Message]        | Failed to connect license server.<br>License server respond XXX.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| E0172041 | [Message]        | A connection with the server has timed out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | [Action by User] | <ul style="list-style-type: none"> <li>- Check [Server Address] and [Port] in the option dialog box.<br/>Ask the floating license server administrator to check that the service is running.</li> <li>- A request may be blocked by the server PC's firewall. Ask the floating license server administrator to check that the client request is allowed.</li> <li>- A request may be blocked by the client PC's personal firewall or other security software. Allow to conduct http and https communication.</li> </ul> |

|          |                  |                                                                                                                                                                                          |
|----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E0172042 | [Message]        | A connection with the server could not be established.<br>Cannot find server or DNS error.                                                                                               |
|          | [Action by User] | Check [Server Address] in the option dialog box.<br>If this does not resolve the problem, please specify [Server Address] by the IP address.                                             |
| E0172043 | [Message]        | Failed to connect license server.                                                                                                                                                        |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.<br>If this does not resolve the problem, ask the floating license server administrator to check that the service is running. |
| E0172044 | [Message]        | A connection with the server was denied.                                                                                                                                                 |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.                                                                                                                              |
| E0172045 | [Message]        | The server returned an error (XXX).                                                                                                                                                      |
|          | [Action by User] | Check [Server Address] and [Port] in the option dialog box.                                                                                                                              |
| E0172046 | [Message]        | A connection with the proxy server could not be established.<br>Cannot find server or DNS error.                                                                                         |
|          | [Action by User] | Check [Internet Option] in the control panel to bypass a proxy server.<br>Ask your network administrator about proxy settings.                                                           |
| E0172047 | [Message]        | A connection with the proxy server could not be established.                                                                                                                             |
|          | [Action by User] | Check [Internet Option] in the control panel to bypass a proxy server.<br>Ask your network administrator about proxy settings.                                                           |
| E0174010 | [Message]        | Failed to load option file.<br>XXX                                                                                                                                                       |
| E0174011 | [Message]        | Failed to save option file.<br>XXX                                                                                                                                                       |
| E0174012 | [Message]        | Failed to load license information.<br>XXX                                                                                                                                               |
| E0174013 | [Message]        | Failed to save license information.<br>XXX                                                                                                                                               |
| E0174014 | [Message]        | Failed to start license service.<br>XXX                                                                                                                                                  |
| E0174015 | [Message]        | Failed to receive request from client.<br>XXX                                                                                                                                            |
| E0174016 | [Message]        | Client request is invalid.                                                                                                                                                               |
| E0174017 | [Message]        | No available license.                                                                                                                                                                    |
| E0174018 | [Message]        | No available license.<br>But upper level license is available.                                                                                                                           |
| E0174019 | [Message]        | A request is send to invalid server.                                                                                                                                                     |
| E0174020 | [Message]        | A request is send from unknown client.                                                                                                                                                   |
| E0174021 | [Message]        | Clock gap between server and client is too large.                                                                                                                                        |
| E0174022 | [Message]        | A request is required unknown license.                                                                                                                                                   |
| E0174023 | [Message]        | License is out of date.                                                                                                                                                                  |

|          |           |                                                                                                                                                       |
|----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| E0174100 | [Message] | This license key is invalid.<br>XXX                                                                                                                   |
| E0174101 | [Message] | This license key is already registered.<br>XXX                                                                                                        |
| E0174102 | [Message] | Can not delete the license in use.<br>XXX                                                                                                             |
| E0180000 | [Message] | This license key is invalid.                                                                                                                          |
| E0180001 | [Message] | XXX<br>This license key is already registered.                                                                                                        |
| E0180010 | [Message] | Failed to add the following license.<br>To add an Upgrade (version) License, the license that is the source of the upgrade must be registered.<br>XXX |
| E0180011 | [Message] | Failed to delete the license.<br>The license that is the source of the upgrade cannot be deleted before the Upgrade (version) License is deleted.     |
| E0182000 | [Message] | Could not write the license information to XXX.                                                                                                       |
| E0190000 | [Message] | Failed to start License Manager.                                                                                                                      |
| E0190001 | [Message] | Failed to start License Manager.<br>Can not find the folder to store the license information.                                                         |
| E0190002 | [Message] | Managing the floating license server requires administrator privileges.                                                                               |



### 3.4 Information

Table 3.4 Information

|          |           |                                                                                                                                                    |
|----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| M0190000 | [Message] | Failed to read license information. The file is broken.<br>Please re-enter license keys.                                                           |
| M0190010 | [Message] | The version of the license manager you are using is older than that assumed by the floating license server.<br>Update the license manager.         |
| M0190011 | [Message] | The version of the floating license server you are using is older than that assumed by the license manager.<br>Update the floating license server. |
| 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 licesne : XXX                                                                                                                          |
| M0191607 | [Message] | Get new licesne : 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] | Unkown 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? |
|----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.6 Warning

Table 3.6 Warning

|          |           |                                                                  |
|----------|-----------|------------------------------------------------------------------|
| W0190002 | [Message] | Failed to read license information from XXX. The file is broken. |
| W0190003 | [Message] | Failure in reading license information. The file is corrupted.   |

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## License Manager V2.02.00