

Floating License Server V2.04.00

User's Manual

Target Device RL78 Family RX Family RH850 Family

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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 wish to using the IDE (CS+ or e ² studio) and design software and hardware application systems.		
Purpose		give users an understanding of the floating license to use for hardware or software of systems using these devices.	
Organization	This manual can be broadly	divided into the following units.	
	1.GENERAL 2.FUNCTIONS 3.MESSAGE		
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: Active low representation: Note: Caution: Remarks: Numeric representation:	<u>High</u> er digits on the left and lower digits on the right XXX (overscore over pin or signal name) Footnote for item marked with Note in the text Information requiring particular attention Supplementary information Decimal XXXX Hexadecimal 0xXXXX	

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1. GENERAL

This chapter describes the outline of the license in the form of a floating license for managing the license of development environment for developing applications and systems for the microcontrollers (RH850, RX and RL78).

1.1 Introduction

A floating license is a form of license where a limited number of licenses for software are managed through a server and any computer connected to the server can use the software within a set number of licenses.





- (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.





- (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.

- 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 8.1 (32 bits and 64 bits)
 - Windows 10 (32 bits and 64 bits)
 - Windows Server 2012: Standard (Server Core environment is unsupported)
 - Windows Server 2012 R2: Standard (Server Core environment is unsupported)
 - Windows Server 2016: Standard (Server Core environment is unsupported)
 - Windows Server 2019: Standard (Server Core environment is unsupported)
- Runtime library
 - .NET Framework 4.5.2
- 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) or later 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) 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 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)	



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) 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 Floating License Server

Insert the CD in the drive of floating license server's PC. The preparing to Install page appears automatically. If the page does not appear automatically, double-click "Setup.exe" in the route directory of the CD.

Click the [Begin Server Setup] button, the floating license server setup begins.

Caution The floating license server setup must be conducted 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

Select Control Panel >> [System and Security] >> [Administrative Tools], and double-click [Services].

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.

	iew Help					
Services (Locz	Name	Description	Status	Startup Type	Log On As	
	Remote Registry	Enables rem		Manual	Local Service	
	Renesas MCU Tools Floating License Se			Automatic	Local System	
	Routing and Remote Access	Offers routi	300 - 10 - ⁶	Disabled	Local System	
	C RPC Endpoint Mapper	Resolves RP	Started	Automatic	Network Servi	
	Secondary Logon	Enables star		Manual	Local System	
	Extended Standard					



2.2 Uninstalling Floating License Server

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

Caution Uninstalling the floating license client must be conducted 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.

 Launch the server administrator GUI Select the Windows [Start] menu >> [All Programs] >> [Renesas Electronics Utilities] >> [Renesas Floating License Server Administrator].

Figure 2.3	Launch the Server Administrator GUI
------------	-------------------------------------

Renesas Electronics Utilities	Devic
Renesas Floating License Server Ad	dministrator
Startup	Defau

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

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

The Floating License Server Administrator window will open.



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

loating License Server Administrator	
	Add License
	Bemove License
	Stop Offline Mode by Earce
	Refresh
	Qption
	Help
	Help

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		
Please specify t	the server port to enable	floating licen	se server.
Server Port	6723		
Enable	2		
Offer the up	per-level license if lower	level license	is empty.
Eolder for savin	g log file		
C:\Program File	s\Common Files\Renes	as Bectronic	s MCU Browse
Max log file size	10 🗄	MB	
_	ge condition of Floating		
_			12:00:00 PM
Save the usa	ge condition of Floating		12:00:00 PM 😒 12:00:00 PM 😒
Save the usa	ge condition of Floating 4/ 1/2016	License	
Save the usa Start date End date	ge condition of Roating 4/ 1/2016 4/ 2/2016	License	

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	s managing Floating	License.		
Server Port	6723			
Disable				
	per-level license if lo	wer-level license	is empty.	
Eolder for saving	alog file s∖Common Files∖Re	oasse Electronic	e MCII	
p. triogram rie			s MCU Brows	ie .
Max log file size	10	🔶 MB		
Save the usag	e condition of Floati	ng License		
Start date	4/ 1/2016		12:00:00 PM	-
End date	4/ 2/2016		12:00:00 PM	٢
Saye]			
📃 Save detaile	ed status			
<u>о</u> к	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 firewall is used, set up as follows.

(1) Open the Windows firewall option

Select Control Panel >> [System and Security] >> [Windows firewall] >> [Advanced settings].

Figure 2.7 Open the Windows Firewall Window

		-co-1-00 MAR	
) - Control Panel +	• • • Such G	ntal faraí 🔋 P	
Adjust your computer's settin	ngs Vie	by Campoy	
		😋 🗣 🔹 Control Par	nal + System and Security + + 49 Scienti Control Point
Received Secure Receive your computer is a facts as your computer field and he and here	atus datagent Safety	s and Family Costol Famil Hone System and Security	Action Center Review provident's plateat and resolve issues Change United Activity Central petitings Troubleshapt comman computer petitions
😋 🐨 🖉 = System and Secur	nty + Windows Ferenalt + 47	Search Control Parter	Retire your computer to an sarker time
Control Panel Home Allow a program or feature through Windows Formall Charge notification settings	access to your computer through the I Have does a firewall help protect must	dans or malicious softwarehout gaining	Chart Minister Johnson - Advance a proopsion through Ministers I System Vans semant of NAM and processor (peed.) Check the Victors Experiments Index.) Advancements acc See this name of this computer
 Turn Windows Ferenali on or off Restore defaults 	What are network (privated)	te) networks Connected 🛞	Windows Update Turn advanatic updating on or att Check for updates
Troubleshoet my network	Networks at home or work where you on the network	i know and trust the people and devices.	Power Options Report a protocol when the computer walks
	Windows Female state:	0n	Change what the priver buttons do Change when the computer steeps
	Incoming connections	Bock all connections to programs that are not on the list of allowed programs	22. Backup and Restore
	Active home or work (private) networks	Sin Network 2	200 Feb or organization Folias Radian Indian
See also Action Center	Notification state	Nately me when Windows Firewall blocks a new program	

The Windows firewall window will open.

Caution Setting up a windows 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
1 19010 2.0	

Windows Firewall with It Inbound Rules.	Provide and the second s		Actions
Cutbound Rules	Name @ Remote Volume Management (RPC-EPM	Group *	Inbound Rules ·
Monitoring	Routing and Remote Access (GRE-In) Routing and Remote Access (J2TP-In) Routing and Remote Access (J2TP-In) Routing and Remote Access (PPTP-In) Secure Socket Tunneling Protocol (SSTP SNMP Trap Service (JDP In) SNMP Trap Service (JDP In) Windows Collaboration Computer Name Windows Collaboration Computer Name Windows Collaboration Computer Name Windows Collaboration Computer Name Windows Collaboration Roundation N Windows Finewall Remote Management (Windows Management Instrumentation Windows Management Instrumentation	Routing and Remot- Routing and Remot- Routing and Remot- Secure Socket Tunn SNMP Trap Windows Collaborat Windows Collaborat Windows Collaborat Windows Collaborat Windows Collaborat Windows Firewall Re Windows Firewall Re Windows Firewall Re Windows Firewall Re Windows Firewall Re	▼ Filter by P + ▼ Filter by S + ▼ Filter by G + Vew + ■ Refresh ■ Export Lis ■ Help Windows Man + O Enable Rule ↓ Cut ↓ Cut ↓ Cut ↓ Delete

The New Inbound Rule Wizard dialog box will open.



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

Figure 2.9 New Inbound Rule Wizard (Rule Type)

New Inbound Rule Wizard		*
Rule Type		
Select the type of frewall rule to	create.	
Steps:		
Rule Type	What type of rule would you like to create?	
Protocol and Ports		
 Action 	O Brogram	
Profile	Rule that controls connections for a program.	
 Name 	Rule Net controls connections for a TCP or UDP port.	
	Prodefined BanchCache Content Retreval (Uses HTTP) -	
	Rule that controls compections for a Windows experience.	
	O Custom	
	Custom rule.	
	N N	
	X	
	Learn more about rule trons	
	< Back Nest > Cancel	

[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.



💣 New Inbound Rule Wiza	d et al
Protocol and Ports	
Specify the protocols and ports	to which this rule applies.
Steps:	
· Rule Type	Does this rule apply to TCP or UDP?
Protocol and Ports	(ICb
 Action 	O TOb
 Profile 	
 Name 	Does this rue apply to all local ports or specific local ports?
	O Al local ports
	Specific local ports: 6723
	Example 40, 4(1, 5000-5010
	A land
	X
	N N
	Learn more about protocol and ports
	< gack Heet > Cancel

[Action] will open.



(c)

Specify the action Select [Allow the connection] and click the [Next] button.

Figure 2.11	New Inbound Rule Wizard (Action)	
-------------	----------------------------------	--

New Inbound Rule Wizard	1	*
Action		
Specify the action to be taken v	hen a connection matches the conditions specified in the rule.	
Steps:		
 Rule Type 	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports	Allow the connection	
 Action 	This includes connections that are protected with iPaec as well as those are not.	
Profile	Allow the connection if it is secure	
Name	This includes only opprections that have been authenticated by using Piec. Connections will be secured using the settings in Piece properties and rules in the Connection Security Rule node. Currientian Currientian	

[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)	1
			1

PNew Inbound Rule Wizard	í .	-
Profile		
Specify the profiles for which the	s n/e applies.	
Steps:		
Rule Type	When does this rule apply?	
Protocol and Ports	\sim	
 Action 	2 Domain	
a Profile	Applies when a conjouter is connected to its corporate domain.	
 Name 	Point Representation Point Representation Point Representation Point Representation Point Representation Learn more about profiles (Back Next > Cancel	

[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.

New Inbound Rule Wizard	
Name	
Specify the name and description of	f this rule.
Steps:	
 Rule Type 	
Protocol and Ports	
Action	
Profile	Name
a Name	Renesas Roating License Server
	Description (optional)
	A CONTRACTOR OF
	A
	N
	A A A A A A A A A A A A A A A A A A A
	Δ.
	\
	Δ.
	< Back Brink Cancel

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].

Windows Firewall with	Inbound Rafes		Actions
Contound Rules	Name Renesal Floating License Server Renesal Floating License Server Renesal Floating License Server Renesal (HTTP-In) RenechCache Hoted Cache Server (HTT- RenechCache Peer Discovery (HSD-In) Connect to a Network Projector (HSD Ev., Connect to a Network Projector (HSD Ev.,	Connect to a Netwo	Inbound Rules Image: State of the state Image: State
	Core Networking - Destination Unreacha Core Networking - Dynamic Host Config Core Networking - Dynamic Host Config Core Networking - Internet Group Mana	Core Networking Core Networking	Disable R Cut Gopy Delete

Figure 2.14 Windows 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

Floating License Server Administrator	
	Add License
	Bemove License
	Stop Offline Mode by Eorce
	Refresh
	Qotion
	Help
	Qut

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.



dd following License keys	
	Add
	Cancel

Figure 2.17 Enter the License Keys

Add License	
Add following License keys	Add Qancel
License key is case-insensitive and does not contain alphabetical "0".	

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



IDF-15-005414-01		
		A
Caution- You should carefully read the Softwar	re License Agreement as the following.	-
Only if you agree this Agreement, you can exer Licensed Programs provided in this Agreement This Agreement is legally valid agreement relati	t as LICENSEE (defined below).	
LICENSOR and LICENSEE. You are deemed Agreement goes into effect as of the time when If you do not agree on the terms and conditions promptly return to us or distributor from which yo	to agree on this Agreement and this n you open this package. Is set forth in this Agreement, you should	
LICENSOR and LICENSEE. You are deemed Agreement goes into effect as of the time wher If you do not agree on the terms and conditions promptly return to us or distributor from which yo package.	I to agree on this Agreement and this in you open this package. Its set forth in this Agreement, you should you bought this package before opening this	
LICENSOR and LICENSEE. You are deemed Agreement goes into effect as of the time wher If you do not agree on the terms and conditions promptly return to us or distributor from which yo package.	I to agree on this Agreement and this in you open this package. Its set forth in this Agreement, you should you bought this package before opening this	
LICENSOR and LICENSEE. You are deemed Agreement goes into effect as of the time wher if you do not agree on the terms and conditions promptly return to us or distributor from which yo package. SOFTWARE LICENSE AGREEMENT (for Ros Do you accept to the software license agreement)	I to agree on this Agreement and this n you open this package. Is set forth in this Agreement, you should you bought this package before opening this ating License)	,

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



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 2.19	Floating License Serve	er Administrator Window Afte	er Adding the License Keys
-------------	------------------------	------------------------------	----------------------------

oating License Server Administrator	
License Pack 2 Professional (CC-RX)	Add License
	Bemove License
	Stop Offline Mode by Eoro
X000X-X000X-X000X-X000X-X000X YYYYY-YYYYY-YYYYY-YYYYY ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ	
	Refresh
	Qption
	Нер



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

2.3.5 Confirming the license usage status

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 as the floating license.
2	Using as the offline license.
	The expiration date of an annual floating license is approaching.
X	This annual floating license is no longer available because it is out of date.



Figure 2.20 License Usage Status





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

Figure 2.21 Refresh the Displayed Information

RL78 License Pack 1 Standard (CC-RL) RL78 License Pack 1 Professional (CC-RL)	Add License
RX License Pack 2 Professional (CC-RX)	Bemove License
	Stop Offline Mode by Earce
XXXXXX-XXXXX-XXXXX-XXXXX-XXXXX XXXXX-XXXXX-XXXXX-XXXXX-XXXXX XXXXX-XXXXX-XXXXX-XXXXX-XXXXX-XXXXX XXXXX-XXXXX-XXXXX-XXXXX-XXXXX-XXXXX-XXXX	
	Refresh
	Refresh Qotion



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

Figure 2.22 Detailed Information for the License Status

78 License Pack 1 Standard 78 License Pack 1 Profession	(CC-RL)	Add License
Ucense Pack 2 Professional	I (CC-RX)	Bemove License
		Stop Offline Mode by For
>00000(->00000(->00000(->0	0000-3000000	-
YYYYY-YYYYY-YYYYY	-mm-mm	
77777-77777-77777	-777777-777777	
License Pack 2 Profe	ssional (CC-RX)	
License Pack 2 Profe	ssional (CC-RX)	
Client IP Address	192.168.0.2	Refresh
Client IP Address Serial Number	192.168.0.2 0x00000000	Refresh
Client IP Address Serial Number License Key	192.168.0.2 0x00000000 222222-22222-22222-22222-22222-222	
Client IP Address Serial Number License Key License Type	192.168.0.2 0x00000000 222222.22222.22222.22222.2222.	Refresh Qotion
Client IP Address Serial Number License Key License Type License Status	192.168.0.2 0x00000000 222222.22222.22222.2222.	Qption
Client IP Address Serial Number License Key License Type	192.168.0.2 0x00000000 222222.22222.22222.22222.2222.	



2.3.6 Deleting a license

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

Figure 2.23 Floating License Server Administrator Window Before Deleting a License

L78 License Pack 1 Standard			
L76 Doerse Pack 1 Standard	nal (CC-RL)		Add License
on Duerice Faux 2 molescond	(outra)		Bemove License
		1	Stop Offline Mode by Earce
X00004-X00004-X00004-X000 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY			
	the state of the s		
IX License Pack 2 Profe	ssional (CC-RX)		
X License Pack 2 Profe	ssional (CC-RX)		
	ssional (CC-RX)		Refresh
		×	Refresh
Client IP Address Serial Number	Gx:00000000		Refresh
Client IP Address Serial Number License Key License Type License Status	Gx:00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-Z		Qption
Client IP Address Serial Number License Key License Type	0x00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-Z Roating License (permanent)		
Client IP Address Serial Number License Key License Type License Status	0x00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-Z Roating License (permanent)		Qption

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.



Floating License Server Administrator	
RL78 License Pack 1 Standard (CC-RL) RL78 License Pack 1 Professional (CC-RL)	Add License
RX License Pack 2 Professional (CC-RX)	Bemove License
	Stop Offline Mode by Earce
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
	Refresh
	Qption
	Нер



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 can not be released.



178 License Pack 1 Standard	(CC-RL)		Add License
L78 License Pack 1 Profession X License Pack 2 Professiona	ICC-RX		
			Bemove License
		-	top Offline Mode by Force
		-	
<u></u>			
Client IP Address	192.168.0.2		
Client IP Address Serial Number	192.168.0.2 0x00000000		Refresh
Client IP Address	192.168.0.2	-72	
Client IP Address Serial Number	192.168.0.2 0x00000000	-ZZ	Rgfresh
Serial Number License Key	192.168.0.2 0x00000000 222227-222272-222272-22222		Option
Client IP Address Serial Number License Key License Type	192.168.0.2 0x00000000 222222-22222-22222-22222 Floating License (permanent)		
Client IP Address Serial Number License Key License Type License Status	192.168.0.2 0x00000000 222222-22222-22222-22222 Roating License (permanent) Using(Offline Mode)		Option



The selected license key will be unused.



Floating License Server Administrator	
RL78 License Pack 1 Standard (CC-RL) RL78 License Pack 1 Professional (CC-RL)	Add License
RX License Pack 2 Professional (CC-RX)	Bemove License
	Stop Offline Mode by Force
20000X-20000X-20000X-20000X TYYYY-YYYYY-YYYYY-YYYYY ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ	
	Refresh
	Rgfresh Option

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 2.27	Floating I	icense	Server	Option	Dialog	Box

	6723				
Server Port	6/23				
Disable					
	_				
Offer the up;	per-level licer	se if lower-le	vel license	is empty.	
older for saving	A Real Property lies and the real Property lies	Deces	Destaurie	MCII D	
C:\Program File:	s Common Fi	ies vrienesas	Electronic	S MCU Brow	wse
Max log file size	[10 🔤	MB		
Max log file size Save the usag		121		20	
		121		12:00:00 PM	le.
Save the usag	e condition o	f Roating Lic	ense	12:00:00 PM 12:00:00 PM	it it
Save the usag Start date	e condition o 4/ 1/2016	f Roating Lic	ense		
Save the usag Start date End date	e condition o 4/ 1/2016	f Roating Lic	ense		

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 2.28 Save As Dialog Box

	w folder	Documents >	1.11	Search Documents		
Organize • Ne	witolder	Documents library Includes: 2 locations				
Downloads	Е	Name	No items match yo	Date modified ur search.	Туре	
Documents Music Pictures	J					
Videos						
Computer	-	(<u></u>	ш			

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 2.29 Scatter with Straight Lines Created by Microsoft Excel

2.3.9 Change options

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



Sector Sector Sector	is managing Ro	bating Licen	se.			
Server Port	6723					
Disable						
	oper-level licen	se if lower-le	vel license	is empty.		
Eolder for savin D:\Program File	ig log tile es∖Common Fil	es\Renesas	Bectronic	s MCU	Brow	se
		10 🔄	MB	-		
Max log file size		· ·	1110			
	ge condition of					
				12:00:00	PM	4
Save the usa	ge condition of		ense	12:00:00		\$ \$
Start date	ge condition of 4/ 1/2016		ense			-

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

- [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.
- [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.

RENESAS

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. 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
	wessaye type

	Message Type	Description
С	Internal error	Processing terminated (suspended) due to internal error.
Е	Fatal error	Processing terminated (suspended) due to fatal error.
М	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 Inter	nal Errors
-----------------	------------

C0171000	[Message]	An internal error occurred. Failed to get a license. XXX
C0171001	[Message]	An internal error occurred. Failed to send license request. XXX
C0171002	[Message]	An internal error occurred. Failed to send license request.
C0171003	[Message]	An internal error occurred. Failed to respond to a license request. 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. XXX
E0172004	[Message]	Failed to load option file. XXX
E0172005	[Message]	Failed to save option file. XXX
E0172006	[Message]	Failed to save option file. XXX
E0172007	[Message]	Failed to load license information. XXX
E0172008	[Message]	Server address or port settings is invalid. XXX
E0172009	[Message]	Failed to save license information. XXX
E0172010	[Message]	Server address or port settings is invalid. XXX
	[Action by User]	Check [Server Address] and [Port] in the option dialog box.



E0172011	[Message]	Failed to receive response from license server. XXX
	[Action by User]	Check [Server Address] and [Port] in the option dialog box.
E0172012	[Message]	Failed to save CSV file. 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. 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. 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. 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. 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]	- Check [Server Address] and [Port] in the option dialog box. Ask the floating license server administrator to check that the service is running.
		 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.
		- A request may be blocked by the client PC's personal firewall or other security software. Allow to conduct http and https communication.

	1	
E0172042	[Message]	A connection with the server could not be established. Cannot find server or DNS error.
	[Action by User]	Check [Server Address] in the option dialog box. 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. 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. Cannot find server or DNS error.
	[Action by User]	Check [Internet Option] in the control panel to bypass a proxy server. 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. Ask your network administrator about proxy settings.
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
E0174015	[Message]	Failed to receive request from client. XXX
E0174016	[Message]	Client request is invalid.
E0174017	[Message]	No available license.
E0174018	[Message]	No available license. 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. XXX
E0174101	[Message]	This license key is already registered. XXX
E0174102	[Message]	Can not delete the license in use. XXX
E0180000	[Message]	This license key is invalid.
E0180001	[Message]	XXX This license key is already registered.
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.
E0182000	[Message]	Could not write the license information to XXX.
E0190000	[Message]	Failed to start License Manager.
E0190001	[Message]	Failed to start License Manager. Can not find the folder to store the license information.
E0190002	[Message]	Managing the floating license server requires administrator privileges.



3.4 Information

M0190000	[Message]	Failed to read license information. The file is broken. 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. 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. 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

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.



Revision Record

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		Page	Summary
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