

Floating License Server V2.01.00

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	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.	
	1.GENERAL 2.FUNCTIONS 3.MESSAGE		
How to Read This Manual	It is assumed that the reader circuits, and microcontrollers	rs of this manual have general knowledge of electricity, logic S.	
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 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
- Windows Server 2008: Standard and Web Server (Server Core environment is unsupported)
- Windows Server 2008 R2: Standard and Web Server (Server Core environment is unsupported)
- 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)
- Runtime library
 - .NET Framework 4.5.2
- License
 - RL78 License Pack 1 (CC-RL) or later Standard edition Floating License (permanent) Standard edition Floating License (annual) Professional edition Floating License (permanent) Professional edition Floating License (annual)
 - RX License Pack 2 (CC-RX) or later
 Standard edition Floating License (permanent)
 Standard edition Floating License (annual)
 Professional edition Floating License (permanent)
 Professional edition Floating License (annual)
 - RH850 License Pack 1 (CC-RH) or later Standard edition Floating License (permanent) Standard edition Floating License (annual) Professional edition Floating License (permanent) Professional edition 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.

Figure 2.2	Services Snap-in
------------	------------------

C Services Eile Action ⊻	iew Help 				00	8
Services (Locz	Name	Description	Status	Startup Type	Log On As	
	Remote Registry Renesas MCU Tools Floating License Se	Enables rem		Manual Automatic	Local Service Local System	
	C Routing and Remote Access RPC Endpoint Mapper	Offers routi Resolves RP Enables star	Started	Disabled Automatic Manual	Local System Network Servi	
·	Extended Standard	Chebics Merini		menuel	COCOR SYSTEM	



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].

Figure 2.3	I aunch the	Server	Administrator	GUI
1 iguio 2.0	Luanon the	001701	/ tarrin not a tor	00.

3 Renesas Electronics Utilities	Devic
Renesas Floating License Server Admini	strator
🗼 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.

The Floating License Server Administrator window will open.

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

Figure 2.4 Open the Floating License Server Option Dialog Box

3 Floating License Server Administrator	
	add License
	Benove License
	Stop Offline Mode by Earce
	Refresh
	Qotion
	Help
	Que

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	e Server Option		
Please specify	the server port to enable	floating licen	se server.
Server Port	6723		
Enable	_		
Offer the un	manlaval license if lower	ulaval license	ie amnhu
Otter the ga	per tever incerise in rower	Hevel licerise	ю епірлу.
Eolder for savin	g log file		
C:\Program File	es/Common Files/Renes	as Electronic	s MCU Browse
Max log file size	10	MB	
Max log file size Save the usa	ge condition of Roating	MB License	
Max log file size Save the usa Start date	ge condition of Roating 4/ 1/2016	MB License	12:00:00 PM
Max log file size Save the usa Start date End date	ge condition of Roating 4/ 1/2016 4/ 2/2016	MB License	12:00:00 PM
Max log file size Save the usa Start date End date Save	ge condition of Roating 4/ 1/2016 4/ 2/2016	MB License	12:00:00 PM 🔄 12:00:00 PM 🔄
Max log file size Save the usa Start date End date Save	e 10 ge condition of Roating 4/ 1/2016 4/ 2/2016	MB License	12:00:00 PM
Max log file size Save the usa Start date En_d date Save	ge condition of Roating 4/ 1/2016 4/ 2/2016 ed status	MB License	12:00:00 PM

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 I	license.		
Server Port	6723			
Disable				
C Offer the up	per-level license if los	ver-level license	is empty.	
Eolder for saving	log file	asse Electronic	e MCII Press	
p. Program File	s common riles viver	esas Electronic	S MCO Brows	se
Max log file size	10	🔶 MB		
Save the usag	e condition of Floatin	ng License		
Start date	4/ 1/2016		12:00:00 PM	۲
End date	4/ 2/2016		12:00:00 PM	
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

	100000000000000000000000000000000000000		
ull a Control Fanal a	• 4 Depart Canton Pe	е	
Adjust your computer's setting	nga Versky d	man .	
		G + + Control Fan	nd + System and Security + . + Ny Securit Committees
Annual Security Secur	User Accounts and Calery	Control Fand Home routh - System and Society	Action Center Review part tompole's status and master states Completion Account Central administ Traditional computer produces and them.
G	Ry + Wesless Frendel + 44 Earn	In Canted Prival	Windows France
Cambol Panel Home	Help protect your computer with W	Indows Firewall	Charle friendlich aber - Aller a program Renugh Mindows
Allow a program or feature	Wedness Fernall can help present hadien or	national schemesters participation	1 System
Berugh Western Formall	access to your computer through the Internet	if a believe	Check the Windows Esperience Index
W Dange notification ontings	How does a forward help period on a spin-	· · · · · · · · · · · · · · · · · · ·	See the name of this computer Device Manager
đ		1 0 1 1 1 1	Windows Update
S Reduce deleuto	Figme or work (private) net	works Connected (6)	View installed updates
Troublesheet my network	Nationality at home or work where you links a on the network	end toust the people and derives	Power Options Regime a parameter the computer rates
	Windows Fermal state On		Charge what the power bullens do
	beaming connections Block are not	all connections to programs that t on the lot of allowed programs	22. Backup and Restore
	Active home or work (private) 🛼 s networks	Mussk 2	the second secon
See altri.	Notification mme Notify blocks	mp when Windows Firewall	
Auton Center			

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

Windows Fermall with Indocend Roles		Actions	
The Indexed Fules	Name	Group	Inbound Fules ·
Monitoring	Animeter voume intragement (DCC-EPM_ Routing and Remote Access (DRE-In) Routing and Remote Access (DTP-In) Routing and Remote Access (DTP-In) Secure Socket Turneling Protocal (SSTP SPAM Trap Service (DDP In) SMAP Trap Service (DDP In) Windows Collaboration Computer Name Windows Communication Foundation N Windows Freewall Remote Management (Windows Freewall Remote Management (Windows Freewall Remote Management (Windows Renewall Remote Management (Windows Management Instrumentation Windows Management Instrumentation Windows Management Instrumentation Windows Management Instrumentation	Renote sciences Routing and Remot- Routing and Remot- Routing and Remot- Secure Socket Tunn ShAM Trap ShAM Trap ShAM Trap Windows Collaborat Windows Collaborat Windows Collaborat Windows Collaborat Windows Frewall Re Windows Frewall Re Windows Frewall Re Windows Managem Windows Managem	Image Prever Nulle ♥ Filter by P

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 Wize	el 💽
Rule Type	
Select the type of frewall rule	to create.
Steps: a Rule Type a Protocol and Pata a Action	What type of rule would you like to create?
a Prolie a Name	Port Rule first controls connections for a TCP or UDP pot. Predefined:
	BanchCache votent Remeval (Uses HTTP) Plue that controls connections for a Windows experience. Custom Custom rule.
	Learn more about tule types

[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 Wize	d
Protocol and Ports	
Specify the protocols and port	a to which this rule applies.
Steps:	
· Rule Type	Does this rule apply to TCP or UDP?
Protocol and Ports	(ICP
 Action 	O NOS
· Frolie	A land
 None 	Does this rule apply to all local ports or specific local ports?
	C Alleria and
	Specific local ports 5723
	Example 40, 4(3, 5000-5010
	$\Delta \phi$
	A A A A A A A A A A A A A A A A A A A
	Learn more about protocol and ports
	< Back (Net >) 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 Wizar	1	-
Action		
Specify the action to be taken v	when 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 Parts 	A Men the connection	
a Action	This includes connections that are protected with IPsec as well as those are not.	
@ Profile	Allow the connection if it is secure	
• Nane	This includes only charactions that have been authenticated by using iPsec. Connections will be secured using the settings in IPsec properties and siles in the Connection Security Rule node.	
	Learn more about actions	1

[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 19010 2.12		(1 10110)	Ζ.

New Inbound Rule Wice	d	12.50
Profile		
Specify the profiles for which the	tis rule applies.	
Steps:		
· Rule Type	When does this rule apply?	
Protocol and Parts	\sim	
 Action 	2 Domain	
a Polle	Applies when a computer is connected to its corporate domain.	
a flane	Apples when a computer is connected to a private network location.	
	Learn more about confiles	

[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.

Prev Inbound Rule Wizard	
Name	
Specify the name and description of this rule.	
Steps:	
a Rule Type	
 Protocol and Parts 	
Action	
a Polle Nete	_
Name Name Name	-
Resorption (optional)	
	1
	\
	X
	\ \
	N N
	N N
	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 Feewall with	Inbound Rules		A	tions	
Connection Security	Name Renesas Elpating License Server BanchCache Content Retrieval (HTTP-In) BanchCache Hosted Cache Server (HTT- BanchCache Hosted Cache Server (HTT- BanchCache Peer Discovery (WSD-In) Connect to a Network Projector (WSD Ev., Connect	Group BranchCache - Con BranchCache - Heit BranchCache - Peer Connect to a Netwo Connect to a Netwo		New Rules New Rules Fiber by P Fiber by S Fiber by G View Refeath Esport Lis Help metait Floats	
	Core Networking - Dynamic Host Cortig Core Networking - Dynamic Host Cortig Core Networking - Internet Group Mana	Care Networking Care Networking		Cut Copy 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 Earce
	Refresh
	Qotion
	Help

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
	Çancel
cense key is case-insensitive and does not contain	

Figure 2.17 Enter the License Keys

Add License	
Add following License keys X0000X-X0000X-X0000X-X0000X Y1111Y-1111Y-1111Y-1111Y ZZZZZ-ZZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ	<u>A</u> dd <u>C</u> ancel
License key is case-insensitive and does not contain alphabetical "O".	

Caution 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.



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



Please read the following software	license agreement.	_
IDF-15-005414-01		
Caution- You should carefully read	the Software License Agreement as the following.	1.8
Only if you agree this Agreement, Licensed Programs provided in thi This Agreement is legally valid agr	you can exercise the rights and licenses relating to the s Agreement as LICENSEE (defined below).	
LICENSOR and LICENSEE. You Agreement goes into effect as of t if you do not agree on the terms a promptly return to us or distributor package.	are deemed to agree on this Agreement and this he time when you open this package. nd conditions set forth in this Agreement, you should from which you bought this package before opening this	
LICENSOR and LICENSEE. You Agreement goes into effect as of t if you do not agree on the terms a promptly return to us or distributor package. SOFTWARE LICENSE AGREEM	are deemed to agree on this Agreement and this he time when you open this package. nd conditions set forth in this Agreement, you should from which you bought this package before opening this ENT (for Floating License)	
LICENSOR and LICENSEE. You Agreement goes into effect as of t if you do not agree on the terms a promptly return to us or distributor package. SOFTWARE LICENSE AGREEM	are deemed to agree on this Agreement and this he time when you open this package. nd conditions set forth in this Agreement, you should from which you bought this package before opening this ENT (for Roating License)	
LICENSOR and LICENSEE. You Agreement goes into effect as of t if you do not agree on the terms a promptly return to us or distributor package. SOFTWARE LICENSE AGREEM Do you accept to the software lice	are deemed to agree on this Agreement and this he time when you open this package. nd conditions set forth in this Agreement, you should from which you bought this package before opening this ENT (for Roating License) ense agreement?	

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	Administrator Window	After Adding the License	e Keys
-------------	------------------------	----------------------	--------------------------	--------

Ucense Pack 2 Professional (CC-RX)	Add License
	Bernove License
	Stop Offine Mode by Earc
xxxxx,xxxxx,xxxxx,xxxxx,xxxxx,xxxxx,xxxx	
	Highesh
	Contraction of the second seco
	Qption
	Qption Help



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



Figure 2.20 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

Floating License Server Administrator	0 0
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 Offine Mode by Earce
X0000:-X0000:-X0000:-X0000:-X0000: YYYY-YYYY-YYYY-YYYY ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ	
	Patroph
	Online
	Spoor
	Пер
	(Que



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 Linense Park 1 Profession	(UC-RL)	Add License
Ucense Pack 2 Professiona	(CCRX)	Bemove License
		Stop Offline Mode by For
>00000(->00000(->00000(->0	0000-3000000	1
YYYYY-YYYYY-YYYYY	-11111-11111	
	-11111-11111	
License Pack 2 Profe	ssional (CC-RX)	
License Pack 2 Profe	ssional (CC-RX)	
License Pack 2 Profe	192.168.0.2	Refresh
Cliense Pack 2 Profe Client IP Address Senal Number License Key	ssional (CC-RX) 192.168.0.2 0x00000000 222222.27222.27222.27222.27222.272	Rgfresh
Cliense Pack 2 Profe Client IP Address Serial Number License Key License Type	ssional (CC-RX) 192.168.0.2 0x00000000 222222.22222.22222.2222.2222.	Refresh
Client IP Address Serial Number License Key License Type License Status	Ssional (CC-RX) 192.168.0.2 0x00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZ	Refresh Option
Client IP Address Setal Number License Key License Type License Status Client Beaming Date	SSIONAL (CC-RX) 192.168.0.2 0x00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZ	Refresh Qption Help
Client IP Address Setal Number Loense Key Loense Type Loense Status Client Beginning Date Olert Beginning Date	SSIONAL (CC-RX) 192.168.0.2 0x0000000 222222.22222.22222.2222.	Refresh Qption Help



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

the second se	(CC D1)		1.6.0.0.1
8 License Pack 1 Standard 8 License Pack 1 Professio	nal (CC-RL)		ådd License
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		-	Demove Loense
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	mmm		
mannannan	mann >		
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license Pack 2 Profe	ssional (CC-RX)		
License Pack 2 Profe	ssional (CC-RX)		Refresh
License Pack 2 Profe Client IP Address Sental Number	ssional (CC-RX)		Refresh
license Pack 2 Profe Dient IP Address Sental Number Joense Key	SSIONAL (CC-RX) 0x00000000 22222-22222-22222-22222-22222-22222-2222	z	Refresh
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License Pack 2 Profe Client IP Address Senal Number License Key License Type License Status	Ssional (CC-RX) Gx00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZ	Z E	Refresh Option
License Pack 2 Profe Dient IP Address Senal Number License Key License Type License Status Dient Beginning Date	Gx00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZ		Refresh Qotion Help
License Pack 2 Profe Dient IP Address Setal Number License Key License Type License Status Dient Beginning Date Dient Expiration Date	SSional (CC-RX) (x00000000 ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZZ-ZZZZ		Rgfresh Qotion Help



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 Ucense
RX License Pack 2 Professional (CC-RX)	Bemove License
	Stop Offline Mode by Eoroe
X00007-X00007-X00007-X00007	
	Refresh
	Qption
	Help



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.



170 Language Daniel T Chandrand	(CC.DI.)	
78 License Pack 1 Standard	nal (CC-RL)	Add License
Klucense Pack 2 Professiona	I (CC-RX)	Berrove License
		Stop Offline Mode by Force
<u></u>	-11111-11111	
K License Pack 2 Profe	ssional (CC-RX)	
Client IP Address	192.158.0.2	Betreeb
K License Pack 2 Profe Client IP Address Serial Number	ssional (CC-RX) 192.168.0.2 0x00000000 77772,77777,77777,77777,77	Rgfresh
X License Pack 2 Profe Client IP Address Setial Number License Key License Tune	ssional (CC-RX) 192.168.0.2 0x00000000 222222-22222-22222-22222-222	Refresh
X License Pack 2 Profe Client IP Address Setial Number License Key License Status	ssional (CC-RX) 192.168.0.2 Gx00000000 ZZZZ2-ZZZZZ-ZZZZZ-ZZZZ-ZZZ Floating License (permanent) License (permanent) License (permanent)	Rgfresh Qption
Client IP Address Setal Number License Key License Type License Status Client Beginning Date	ssional (CC-RX) 192.168.0.2 0x00000000 222222-22222-22222-2222-22 Rosting License (permanent) Using(Offine Mode) 9/1/2016.2.28 PM	Refresh Qption Help
K License Pack 2 Profe Client IP Address Setal Number License Key License Type License Status Client Beginning Date Client Exercation Date	ssional (CC-RX) 192.168.0.2 Gx00000000 22222-22222-22222-2222-22 Rosting License (permanent) Using(Offine Mode) 9/1/2016 2-28 PM 9/4/2016 2-28 PM	Refresh Qption Help



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)	Bernove Loense
	Stop Offline Mode by Force
X0000-X0000-X0000-X0000-X0000X	
	Rgfresh
	Qption
	Link.
	Teb

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 Licens	se Server O	otion Dialog Box
i igui o z.z.	T louding Eloone		Shorr Dhalog Dox

Server Port	6723					
Disablg						
Offer the up	per-level licer	se if lower-le	vel license	is empty.		
Folder for saving	a loa file					
C:\Program File	s\Common R	les\Renesas	Bectronic	s MCU	Brow	vse
In the fits day	1	10	MB			2005
yax log tile size		1.5				
Save the usag	ge condition o	f Floating Lic	ense			
Save the usag Start date	e condition o 4/ 1/2016	f Floating Lic	ense	12:00:00	PM	l¢.
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Save the usag Start date End date Save	e condition o 4/ 1/2016 4/ 2/2016	f Floating Lic	vense	12:00:00	PM PM	le le

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

Jos Cont	nes + Documents +	• • • • I search Documents	,
Organize • New!	folder		• 0
📌 Favorites 📰 Desktop	Documents library Includes: 2 locations	Arrange by:	Folder *
Downloads	Name	Date modified	Type
2 Recent Places	E No item	s match your search.	
词 Libraries	1111111111		
Documents			
J Music			
Music Pictures Videor			
 Music Pictures Videos 			
Music Pictures Videos Computer	• • •		
Music Pictures Videos Computer File game:	m		
Music Pictures Videos Computer File game: Save as type: C	iconinglicenseUsge SV (Comma delimited) (*.csv)		

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	
Example of output ,RX License Pack 2 Professional,RL78 License Pack 1 Standard 2016/9/12 10:50:00,0,0 2016/9/12 10:55:11,0,0 2016/9/12 10:55:11,1,0 2016/9/12 10:57:23,1,0 2016/9/12 10:57:23,2,0 2016/9/12 11:00:34,2,0 2016/9/12 11:00:34,2,1 2016/9/12 11:01:13,2,1 2016/9/12 11:01:13,3,1 2016/9/12 11:11:23,4,1 2016/9/12 11:11:50,4,1 2016/9/12 11:11:50,5,1 2016/9/12 11:25:12,5,1 2016/9/12 11:25:12,4,1	2016/9/12 11:33:09,4,1 2016/9/12 11:33:09,5,1 2016/9/12 11:41:24,5,1 2016/9/12 11:41:24,4,1 2016/9/12 11:41:51,4,1 2016/9/12 11:41:51,3,1 2016/9/12 11:44:02,3,1 2016/9/12 11:52:29,4,1 2016/9/12 11:52:29,4,1 2016/9/12 11:55:53,5,1 2016/9/12 11:55:53,5,1 2016/9/12 11:55:53,4,1 2016/9/12 12:01:00,4,1 2016/9/12 12:01:00,3,1 2016/9/12 12:03:09,3,1 2016/9/12 12:03:09,2,1
2016/9/12 11:11:23,4,1 2016/9/12 11:11:20,4,1 2016/9/12 11:11:50,5,1 2016/9/12 11:25:12,5,1 2016/9/12 11:25:53,4,1 2016/9/12 11:25:53,5,1 2016/9/12 11:27:25,5,1 2016/9/12 11:27:25,4,1 2016/9/12 11:31:00,4,1 2016/9/12 11:31:00,5,1 2016/9/12 11:31:13,5,1 2016/9/12 11:31:13,4,1	2016/9/12 11:55:53,4,1 2016/9/12 12:01:00,4,1 2016/9/12 12:01:00,3,1 2016/9/12 12:03:09,3,1 2016/9/12 12:03:09,2,1 2016/9/12 12:14:02,2,1 2016/9/12 12:22:29,1,1 2016/9/12 12:22:29,0,1 2016/9/12 12:30:00,0,1

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.



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Server Port	6723					
Disabl <u>e</u>						
Offer the up	oper-level lice	ense if lower	level license	is empty.		
older for savin C:\Program File	ig log tile es\Common	Files\Renes	as Bectronic	s MCU	Brow	se
Max log file size	9	10	MB			
		of Floating I	license			
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Save the usa Start date End date Save	ge condition 4/ 1/201 4/ 2/201	6		12:00:00	РМ	(¥)

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.

- [Folder for saving log file] text box

Specifies the path for the folder in which the log files are to be saved. If the [Browse] button is clicked, the folder can be specified in the Browse for folder dialog box.

Logs are recorded with the numerical part of the file name changed for every 3 Mbytes with a file name of "FloatingLicense.xxx.log" (xxx is a 3-digit numerical value).

- [Max log file size] spin box

Specifies the maximum size of log files. When recording a log immediately after the maximum size has been reached, the oldest log file is deleted to keep the file size within the size of this setting.

- [Save detailed status] checkbox

If this is checked, the internal operations of programs are also recorded. If this is unchecked, only acquiring and releasing of licenses and their results are recorded.



2.4 Resetting When the Server Is Changed

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

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



3. 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
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

|--|

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

E0172000	[Message]	Getting a license is timed out.
E0172001	[Message]	Command-line option is invali
E0172002	[Message]	Failed to load license file.
E0172003	[Messade]	Eailed to load option file

Fatal Errors

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.



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.
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.



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



M0101803	[Message]	Catting upper level license · XXX	
1010191000	[IVIESSage]		
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.	



Revision Record

Rev.	Date		Description	
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