

CS+ V5.00.00

Integrated Development Environment

User's Manual: Updater

Target Device

RL78 Family

RX Family

RH850 Family

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How to Use This Manual

This manual describes the role of the CS+ integrated development environment for developing applications and systems for RH850 family, RX family, and RL78 family, and provides an outline of its features.

CS+ is an integrated development environment (IDE) for RH850 family, RX family, and RL78 family, integrating the necessary tools for the development phase of software (e.g. design, implementation, and debugging) into a single platform.

By providing an integrated environment, it is possible to perform all development using just this product, without the need to use many different tools separately.

Readers	This manual is intended for users who wish to understand the functions of the CS+ and design software and hardware application systems.
Purpose	This manual is intended to give users an understanding of the functions of the CS+ 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 A.WINDOW REFERENCE
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: <u>Higher</u> 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 update tools and help files that have been installed.

1.1 Introduction

This manual covers how to update installed tools and help files to the latest versions.

1.2 Features

The CS+ has the following features for updating.

- This feature is for updating tools and help files that have been installed. You can acquire information on the latest version information via the Internet and display the list of available updates. Select tools that you wish to update and download and install the latest versions.

2. FUNCTIONS

The update feature updates installed tools and help to their latest versions.

It acquires information about the latest versions via the Internet, and then downloads and installs them.

There are three ways of updating tools and help files: manually following instructions on the screen, automatically checking for updates in accord with the settings made by the user, and automatically completing the entire process up to downloading.

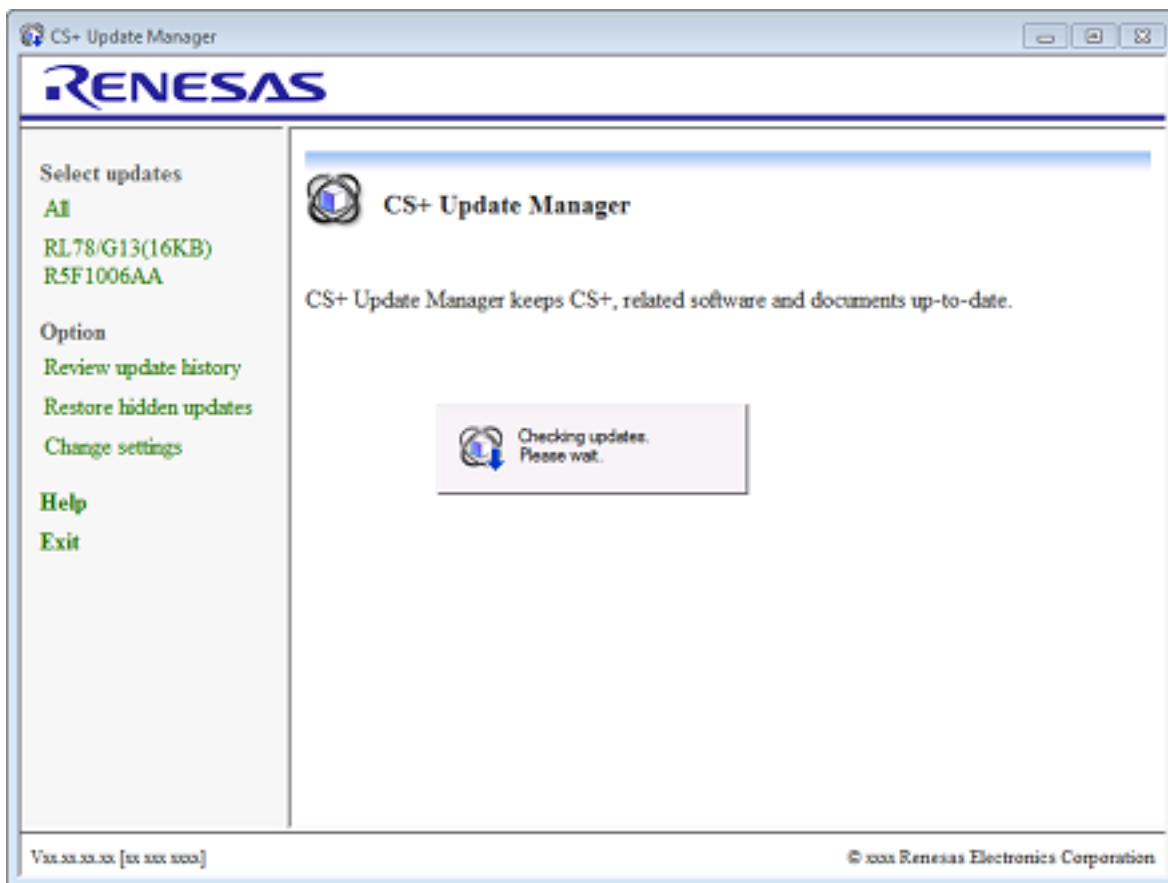
Caution When you use the update feature, the host machine must have a connection to the Internet. Also note that an authentication dialog box for the proxy server may appear when the CS+ Update Manager window is being opened. In such a case, enter the user name and password for the proxy server.

2.1 Manual update feature

This section describes the manual update.

- (1) Launch Update Manager.
From the Windows the [Start] menu, select [Programs] >> [Renesas Electronics CS+] >> [Update Manager], or from the CS+ menu, select [Help] >> [Check for Updates...]. The [CS+ Update Manager window](#) launches.

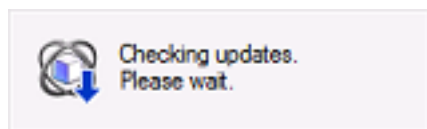
Figure 2.1 CS+ Update Manager Window



Remark 1. In Windows 8.1, click on [Update Manager] on the start screen.

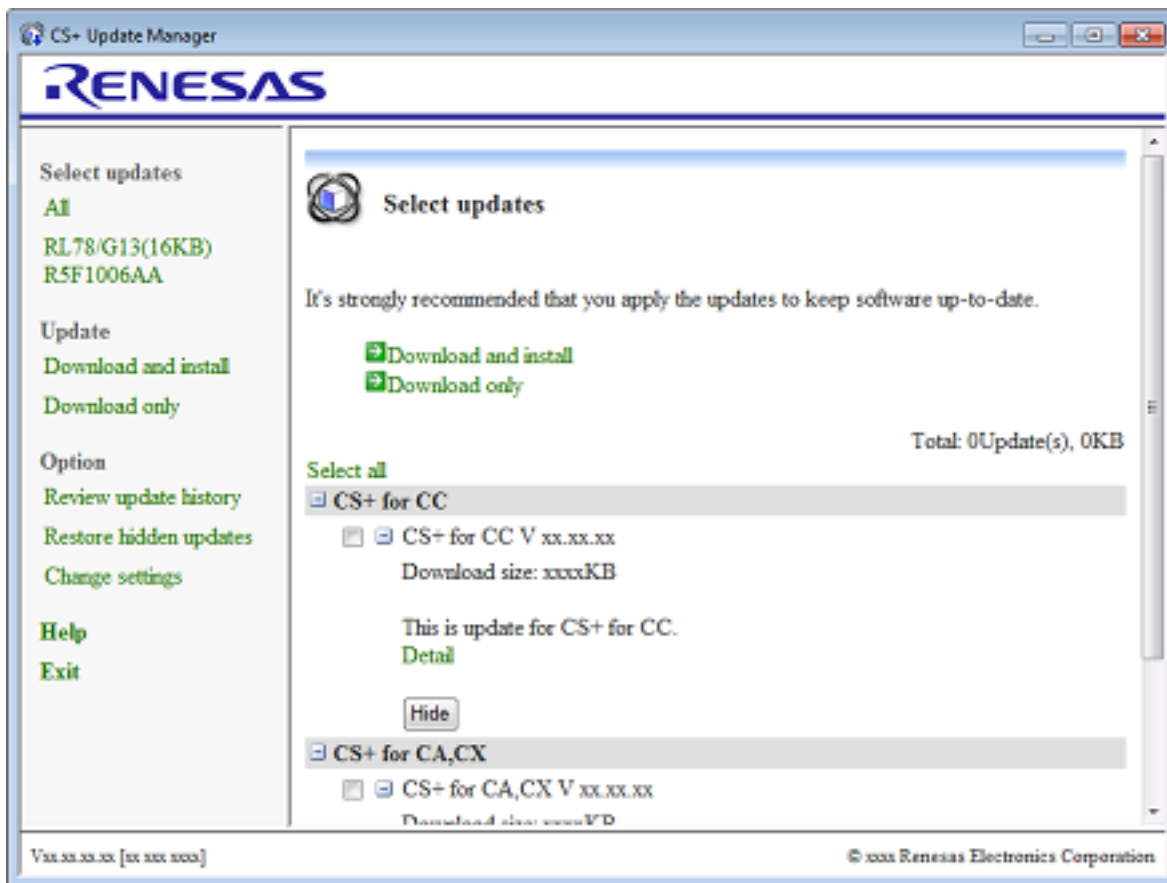
Remark 2. The following image is displayed while information on the available updates is being acquired.

Figure 2.2 Image Displayed During Acquisition of Information on the Available Updates



- (2) Select update items.
A list of appropriate update items appears on the [Select updates page](#).

Figure 2.3 Select updates Page



Select the check boxes of updates and click [Download and install] or [Download only] in the update selection area.

- When [Download and install] is clicked: (3)
- When [Download only] is clicked: (5)

Remark 1. In the menu area, select a microcontroller to only display update items for the selected microcontroller.
If you launched the [CS+ Update Manager window](#) by selecting [Check for Updates...] from the [Help] menu of CS+, then update items for the microcontroller of the project currently open in CS+ is automatically selected.

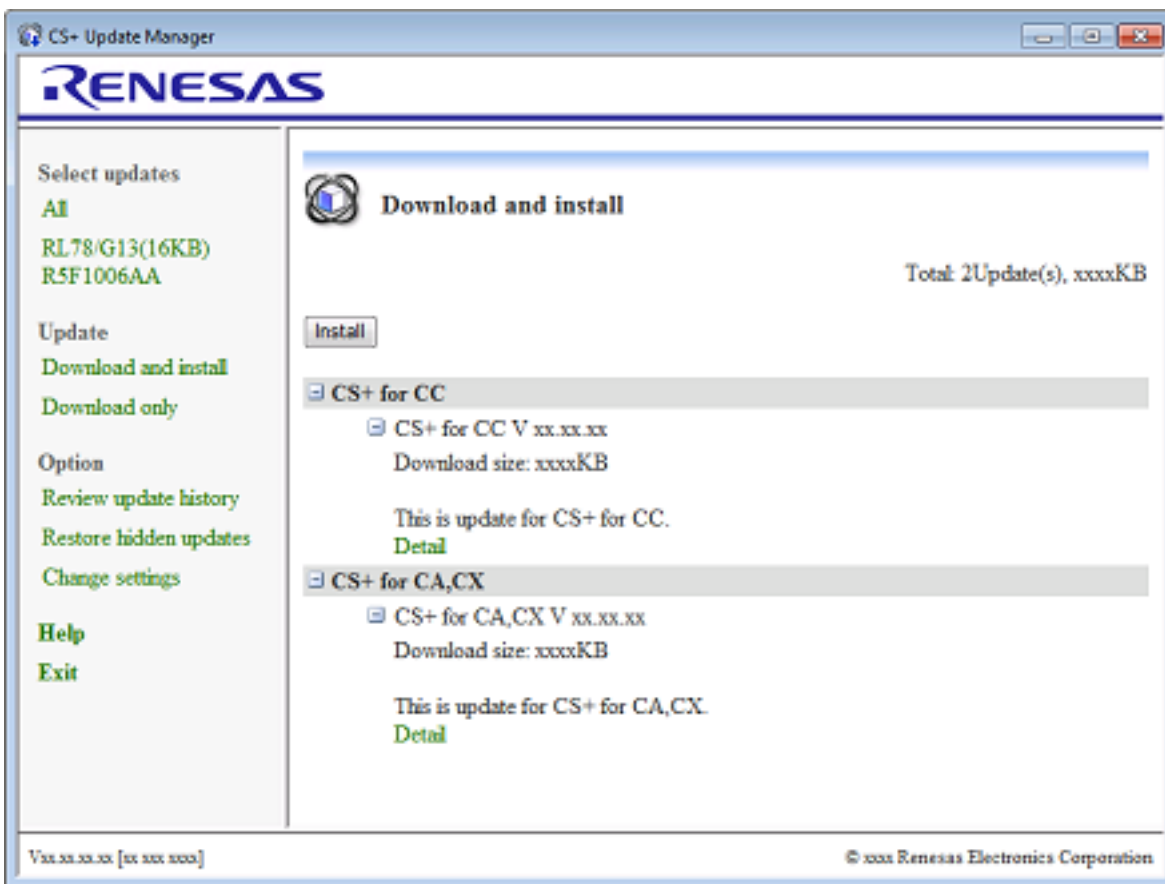
Remark 2. Click [Select all] in the update selection area to select the check boxes of all updates.

Remark 3. If Update Manager failed to obtain the information, then the [Error page](#) appears.

- (3) Download and install.
Update items selected on the [Select updates page](#) appears on the [Download and install page](#).

Remark If there are the updates that must be installed together with the updates selected on the [Select updates page](#), a Message dialog box appears.
Click the [Yes] button on the Message dialog box to select the required updates.

Figure 2.4 Download and install Page



Check the information, and click the [Install] button. You must have administrator privileges to perform installation.

- (4) Confirm the download and install progress. Update items are downloaded, and then they are installed. A progress bar on the [Update in progress dialog box](#) displays the download and install progress. The download and install progress of each tool appear in the [Update status] area.

Figure 2.5 Update in progress Dialog Box (Downloading)

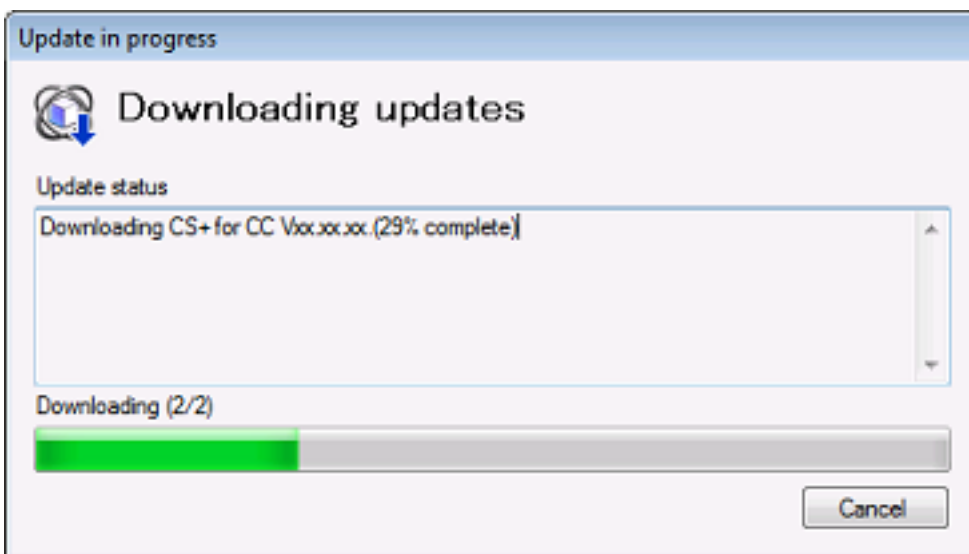
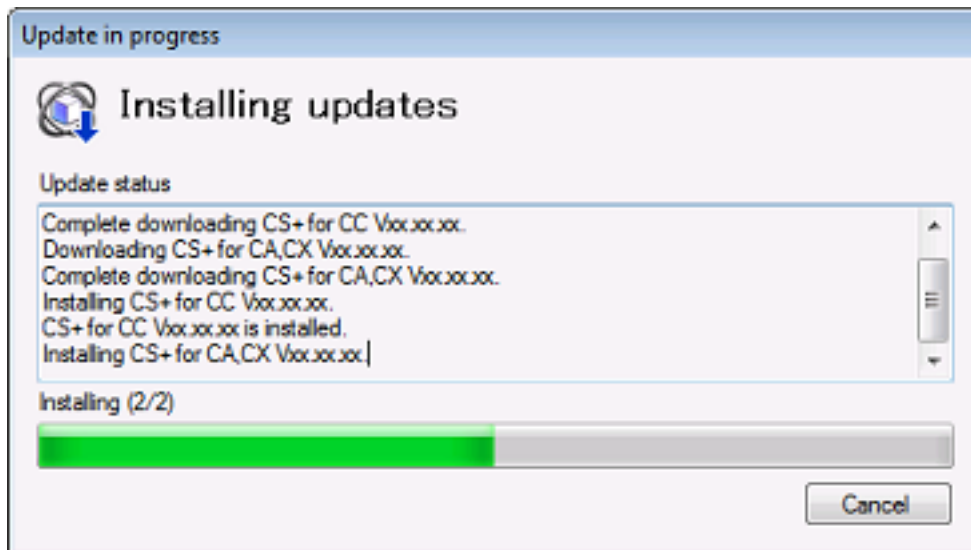


Figure 2.6 Update in progress Dialog Box (Installing)

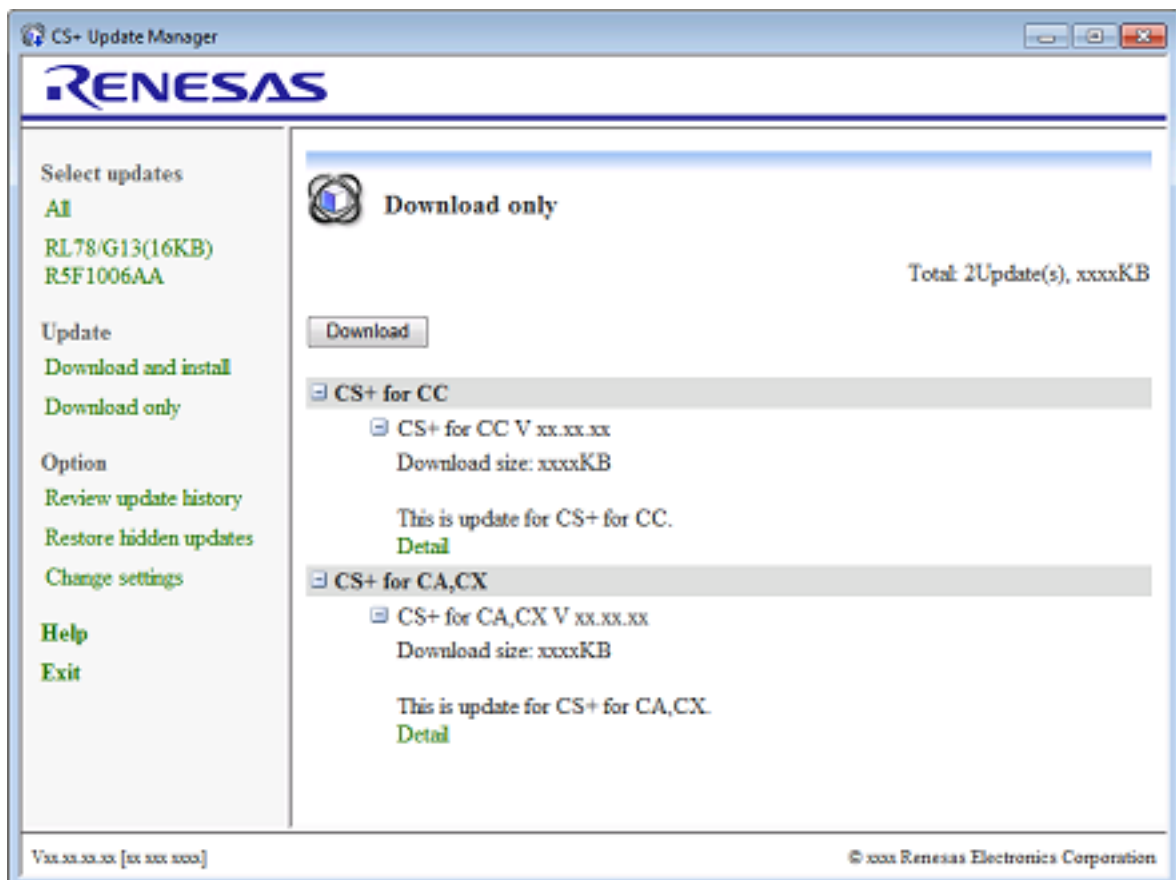


Caution If an emulator USB driver is installed, the confirmation dialog box may appear.

Go to (7).

- (5) Download only.
Update items selected on the [Select updates page](#) appears on the [Download only page](#).

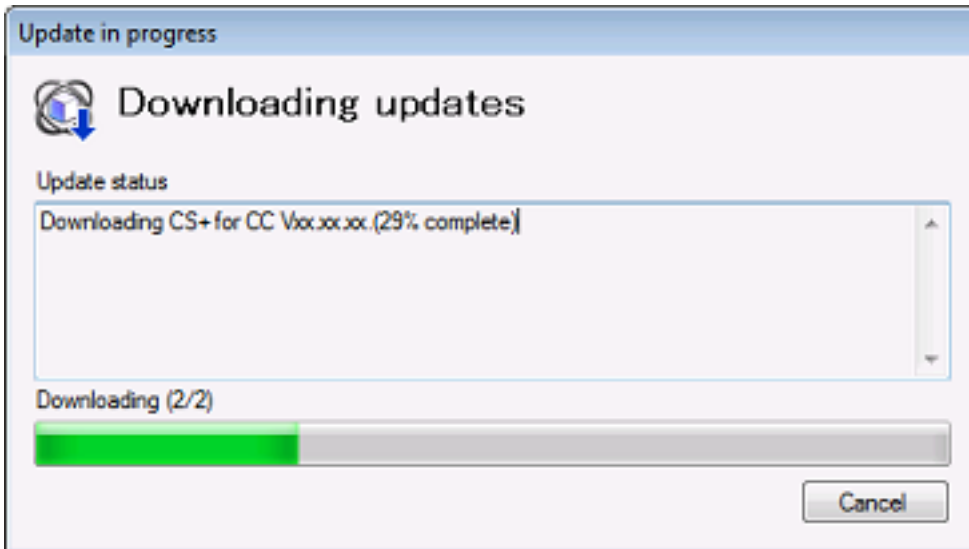
Figure 2.7 Download only Page



Check the information, and click the [Download] button.

- (6) Confirm the download progress.
Update items are downloaded. A progress bar on the [Update in progress dialog box](#) displays the download progress.
The download progress of each tool appear in the [Update status] area.

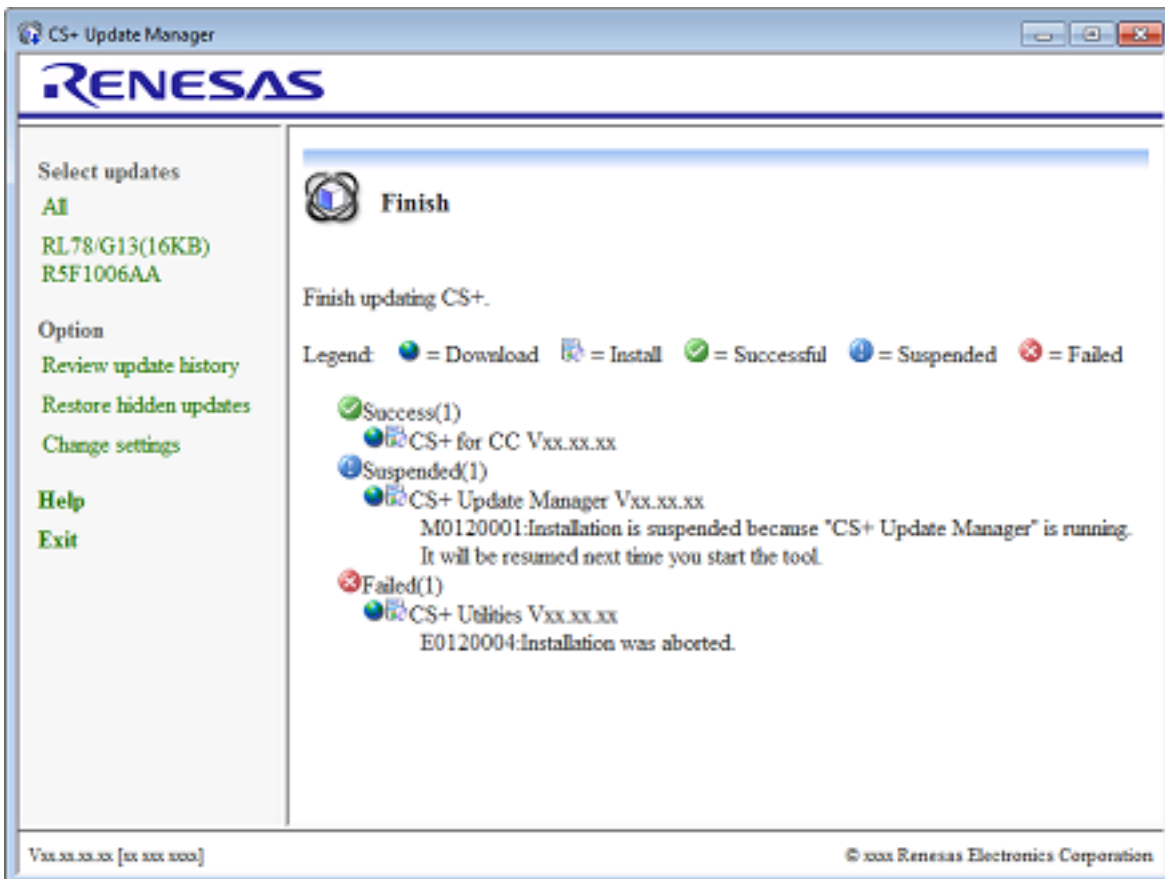
Figure 2.8 Update in progress Dialog Box



Remark See "2.5 Displaying the update history" for instructions on installing download update items later.



- (7) Display results of download and installation.
When all update tasks are finished, the results of the update execution will appear on the [Finish page](#).

Figure 2.9 Finish Page






Click the [Exit] to complete updating.

Remark 1. The icons below are displayed in the head of update titles.

	Updates are downloaded.
	Updates are installed.

Remark 2. The results of the download and/or installation are displayed via.

	Displays number of successful updates and update titles.
	Displays number of canceled updates, update titles, and messages.
	Displays number of failed updates, update titles, and messages.

2.2 Regularly checking for updates

This section describes how to set up regular checking for updates.

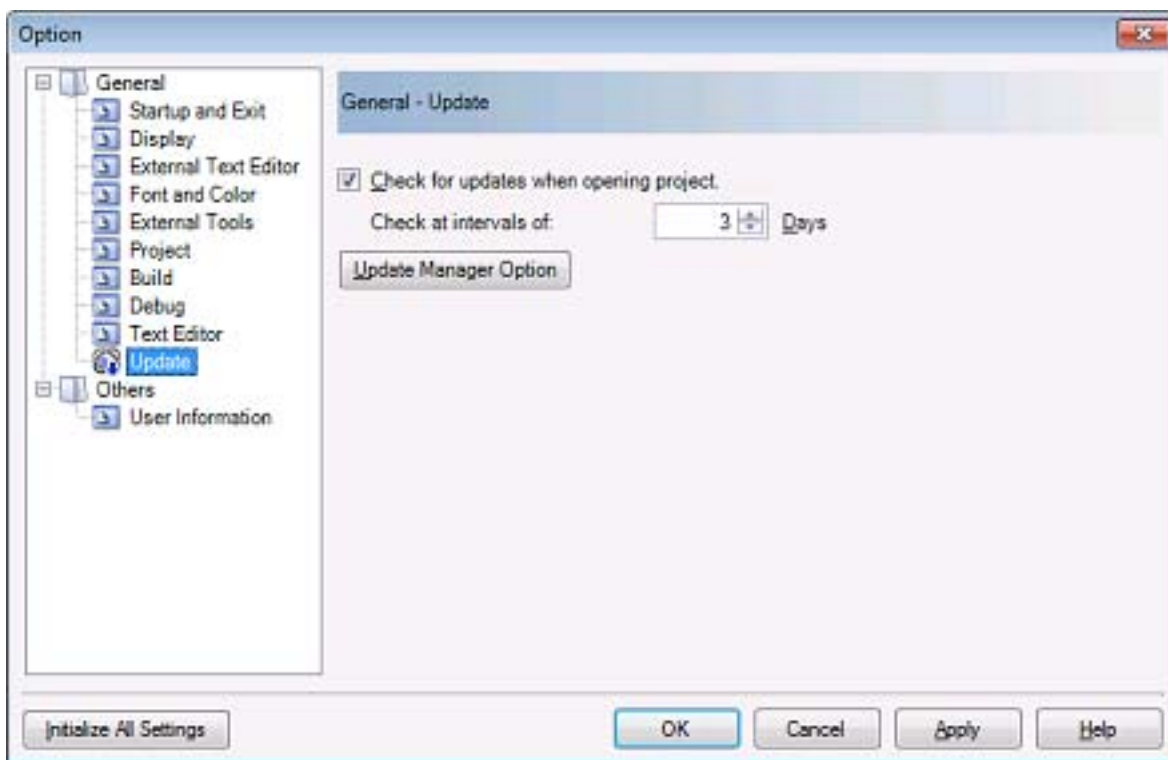
The auto-update facility automatically performs some or all of the operations that are available with the manual update facility every time a project is opened in the CS+.


(1) Auto checking function

This function performs the check for updates when a CS+ project is opened.

This function is executed when: in the Option dialog box, in the [General - Update] category, the [Check for updates when opening project.] check box is selected, and the conditions set in [Check at intervals of] are met.

Figure 2.10 Option Dialog Box ([General - Update] Category)



Remark 1. This function performs the check for updates in parallel with the CS+ process. While the check is ongoing, the  icon appears in the task tray.

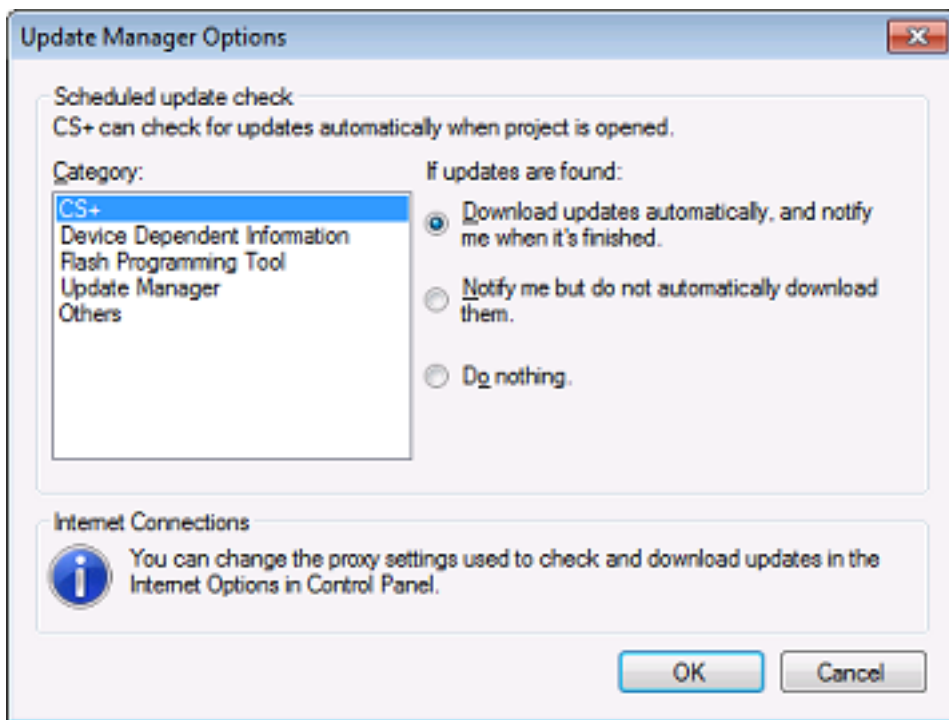
Remark 2. If the check does not find any updates, the auto checking function exits.


(2) Auto download function

The auto download function checks if the conditions for updating in (1) are met, and then downloads any updates that were found.

This function is executed for each category when: in the [Update Manager Options dialog box](#), [Download updates automatically, and notify me when it's finished.] is selected.

Figure 2.11 Update Manager Options Dialog Box



Remark 1. During the download, the  icon appears in the task tray.

Remark 2. If the check does not find any updates, the auto download function exits.

(3) The update notification function


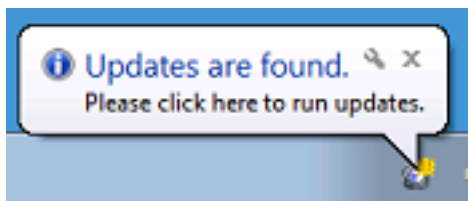
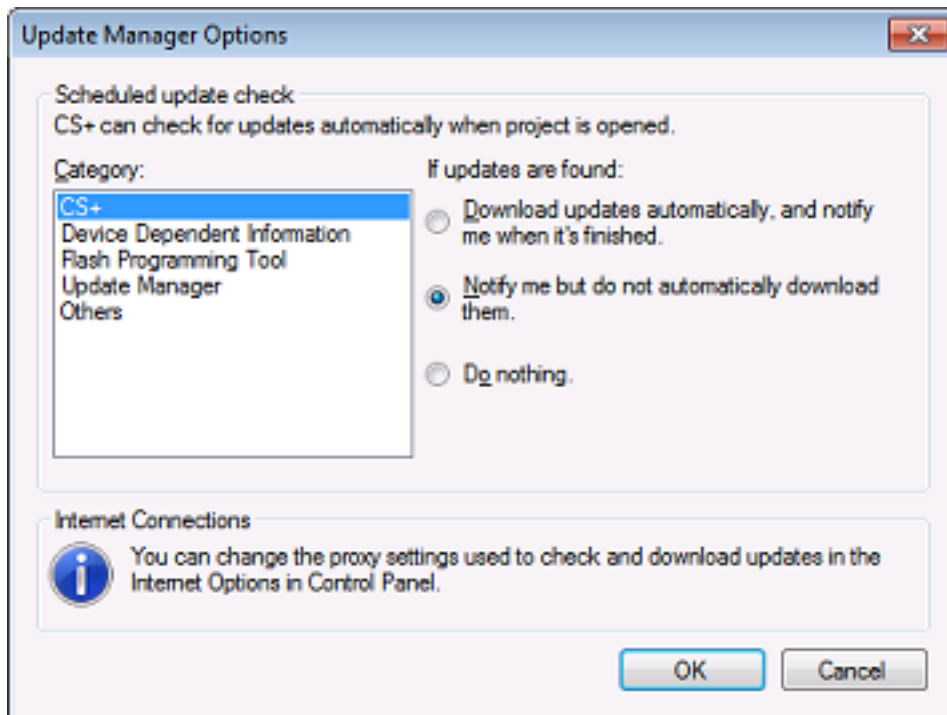
After downloading the target update in (2), the update notification feature displays an icon  notifying of the update in the task tray. If any of the updates that were found for the first time during this auto check, the following balloon help appears.

Figure 2.12 Balloon Help



And the updates are executed without performing the download when: in the [Update Manager Options dialog box](#), [Notify me but do not automatically download them.] is selected. This can be specified for each category.

Figure 2.13 Update Manager Options Dialog Box





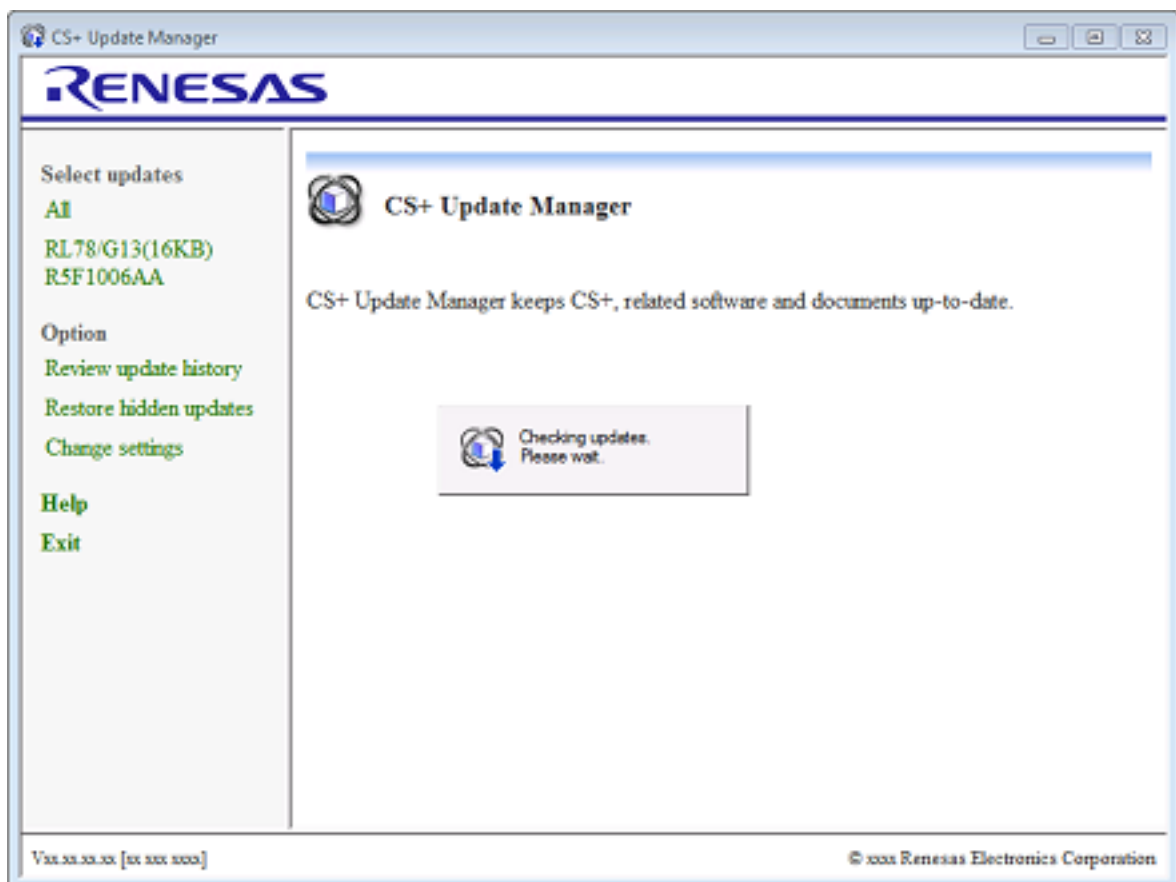
Remark Click the  in the task tray or balloon help  to display the [CS+ Update Manager window](#).

Figure 2.14 CS+ Update Manager Window



Remark Perform the installation in accordance with "2.1 Manual update feature", step (3).

2.3 Canceling an update

From the [Update in progress dialog box](#), click the [Cancel] button to cancel the update. If the update was canceled, then the [Finish page](#) will show that the update was canceled.

When performing an update, it is not possible to update currently running related tools or open files. For this reason, if a related tool is running then the installation will be postponed, and the [Finish page](#) will indicate that the installation was suspended.

2.4 Resuming an update

When Update Manager or a tool related to CS+ supporting the update function is started, it checks whether there are suspended installations.

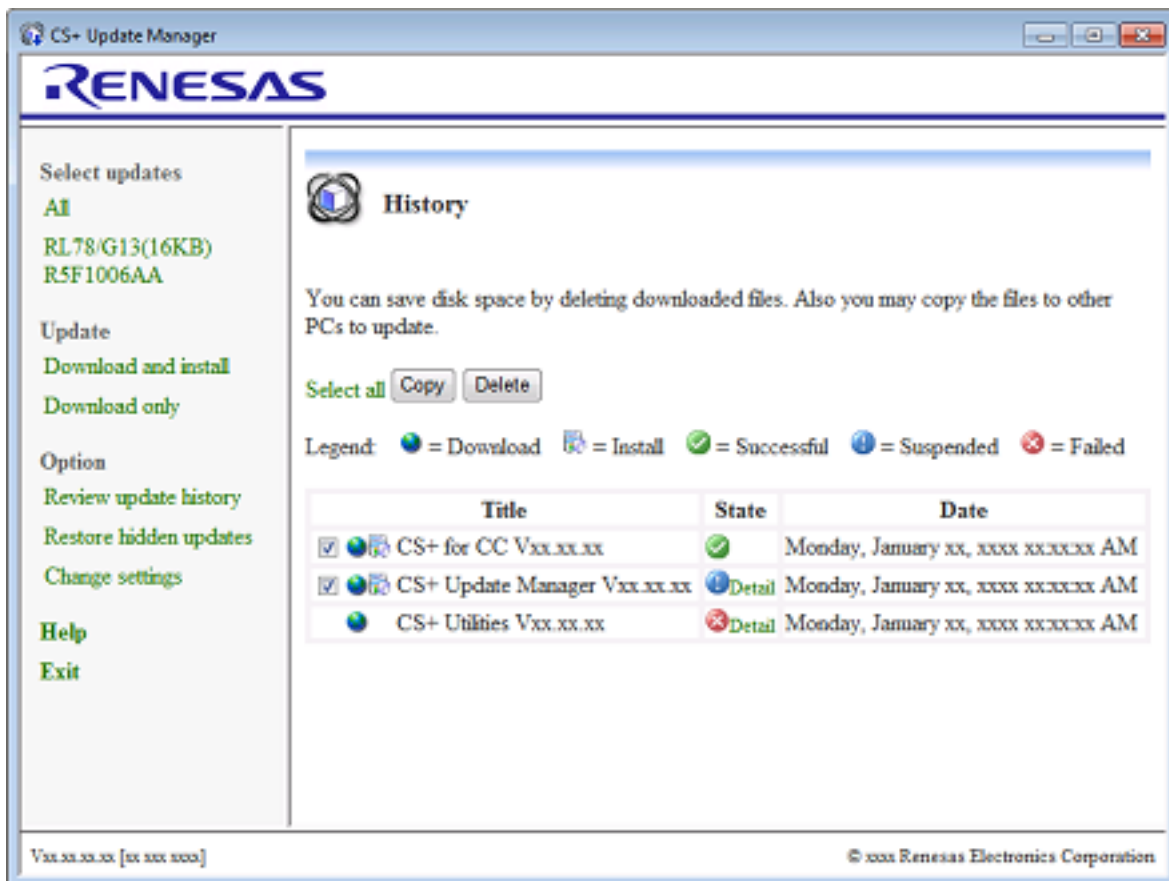
If there are suspended installations, then if a related tool is running, a Message dialog box appears. After closing the tool, click the [Retry] button.

If a related tool is not running, a Message dialog box appears. Click the [Yes] button. Update Manager will perform the update. After the update is performed, the [CS+ Update Manager window](#) closes, and the tool that was shut down is restarted.

2.5 Displaying the update history

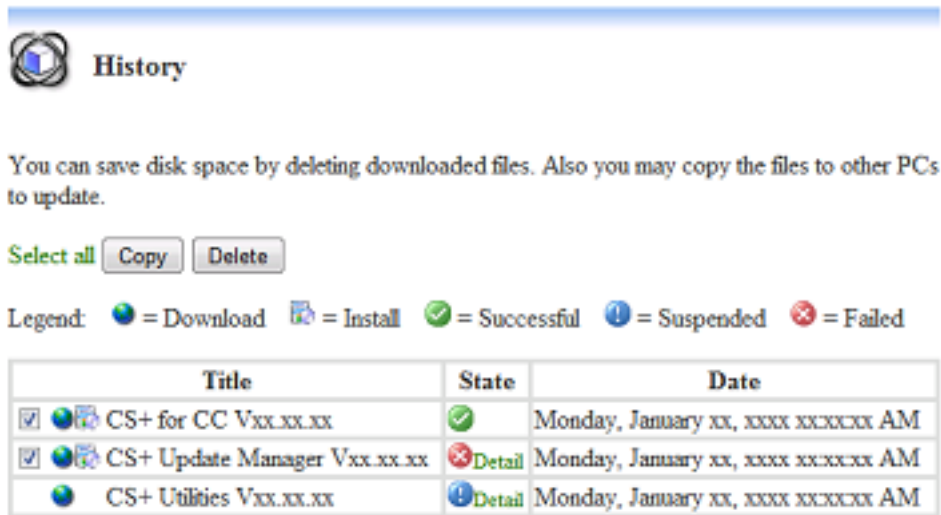
In the menu area of the [CS+ Update Manager window](#), select [Review update history]. The [History page](#) appears.

Figure 2.15 History Page



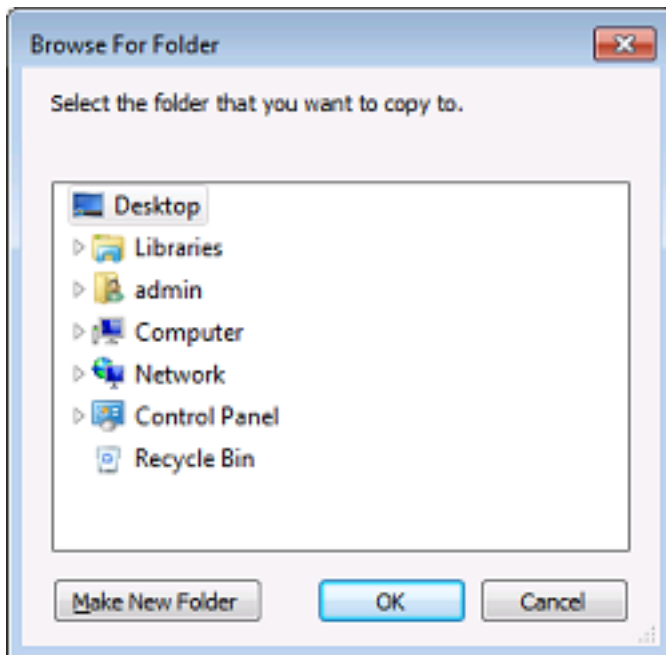
- (1) Installing download files
This section describes how to install download files.
- (a) Select download files.
Select the check boxes of download files in the [History page](#), and click the [Copy] button.

Figure 2.16 History Page



- (b) Select a copy destination folder.
The Browse For Folder dialog box appears.

Figure 2.17 Browse For Folder Dialog Box

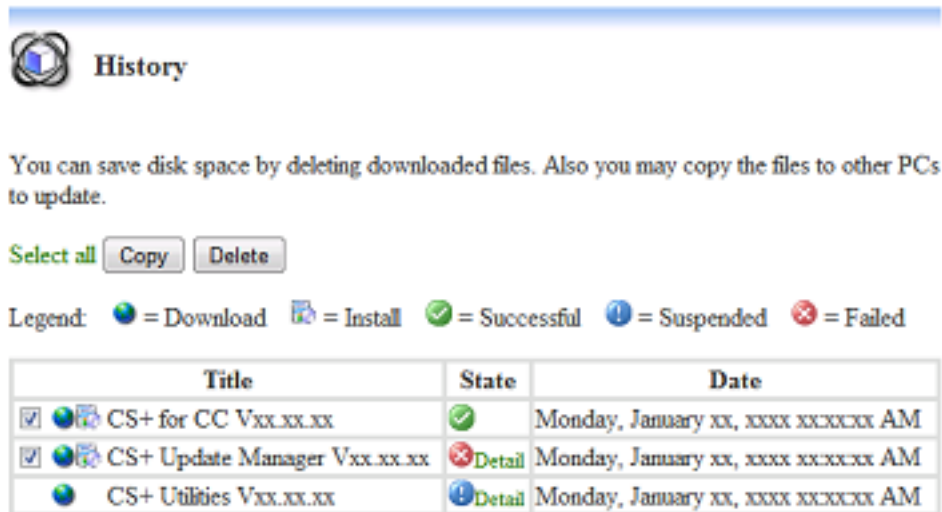


Select a copy destination folder, and click the [OK] button.

- (c) Confirm the copy destination folder and install.
The download files are copied to the specified folder.
Open the folder in Explorer, and install by double-clicking the copied files.

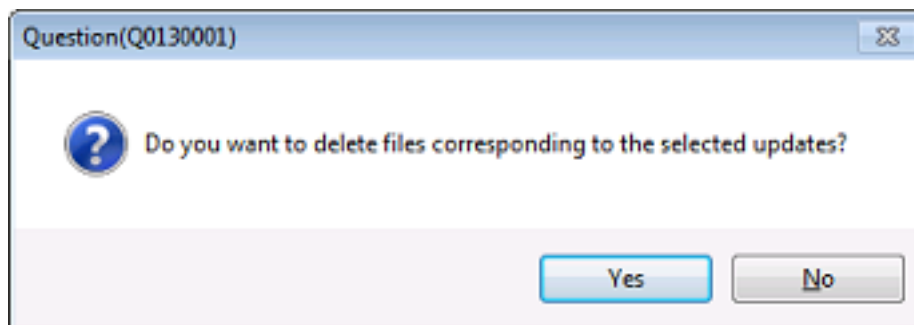
- (2) Deleting download files
- (a) Select download files.
Select the check boxes of download files in the [History page](#), and click the [Delete] button.

Figure 2.18 History Page



- (b) Confirm whether you want to delete download files and delete them.
A Message dialog box asks whether you want to delete download files.

Figure 2.19 Message Dialog Box



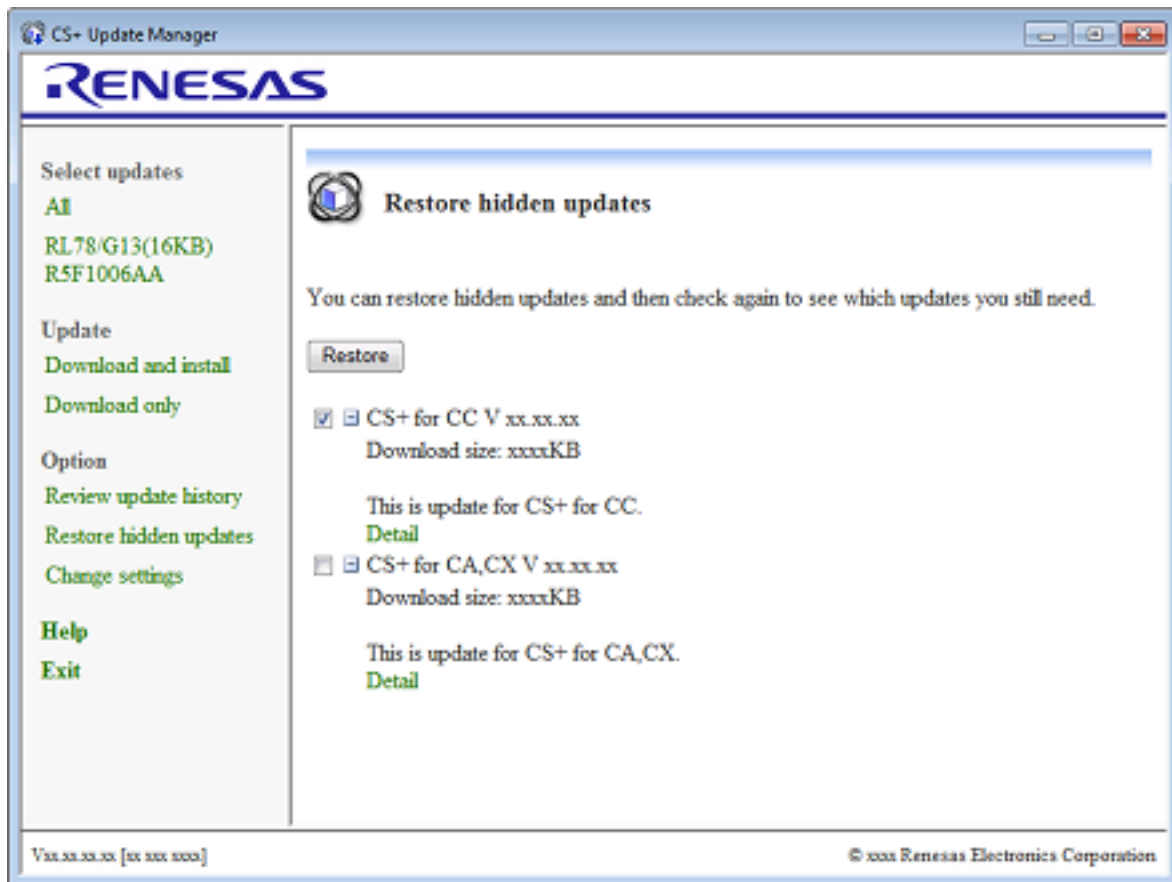
If you click the [Yes] button, the download files are deleted.

2.6 Restoring hidden updates

In the menu area of the [CS+ Update Manager window](#), select [Restore hidden updates] to display the [Restore hidden updates page](#).

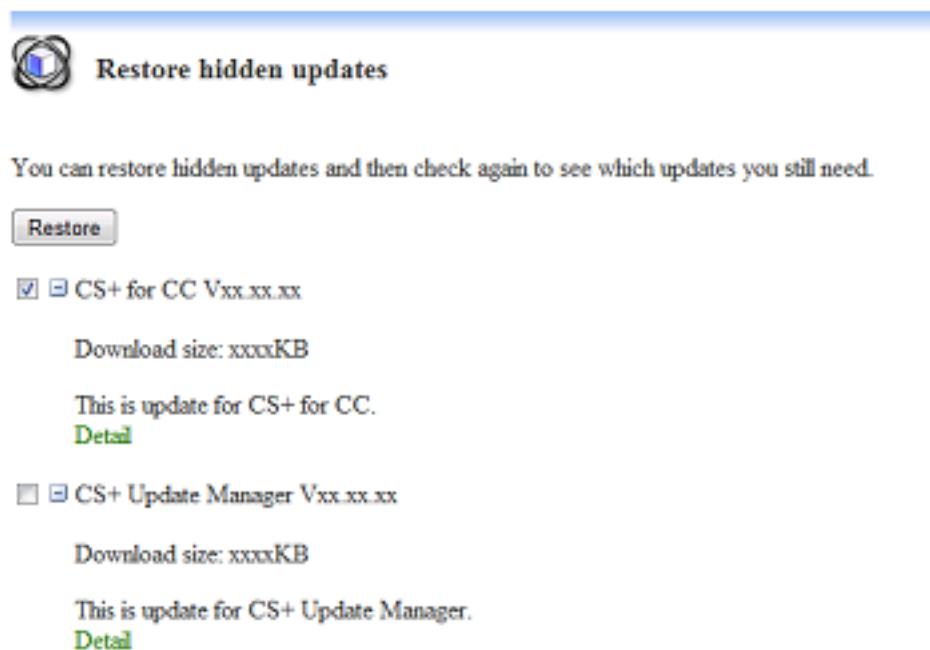
From this page, you can display the updates that were hidden on the [Select updates page](#).

Figure 2.20 Restore hidden updates Page



- (1) Select updates.
Select the check boxes of updates in the [Restore hidden updates page](#), and click the [Restore] button.

Figure 2.21 Restore hidden updates Page



A. WINDOW REFERENCE

This section describes the windows and dialog boxes related to updates.

A.1 Description

Below is a list of the windows and dialog boxes related to updates.

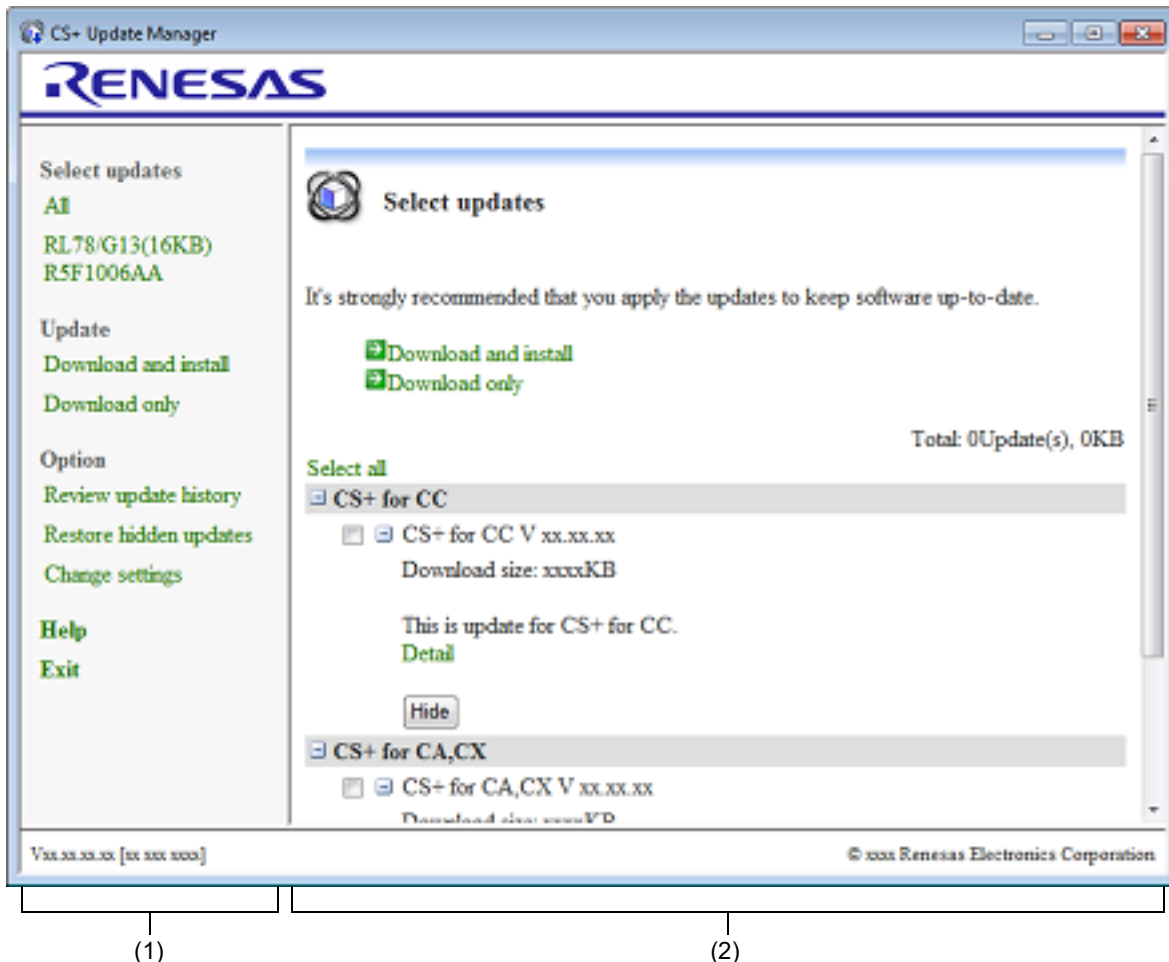
Table A.1 Window/Dialog Box List

Window/Dialog Box Name	Function Description
CS+ Update Manager window	This window displays the status of and controls the update function.
Update in progress dialog box	This dialog box displays the progress of update download and installation.
Update Manager Options dialog box	This dialog box displays and changes the Update Manager options.

CS+ Update Manager window

This window displays the status of and controls the update function.

Figure A.1 CS+ Update Manager Window



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- From the Windows [Start] menu, select [Programs] >> [Renesas Electronics CS+] >> [Update Manager].
 Remark In Windows 8.1, click on [Update Manager] on the start screen.
- In the Windows task tray, click the or balloon help (i).
- From the CS+ [Help] menu, select [Check for Updates...].
- From the Create Project dialog box of the CS+, click the [Update...] button.

[Description of each area]

(1) Menu area

This area displays a menu for changing the appearance and settings of the main area. Select an item to perform the corresponding action.

All	Displays the updates.
<i>Microcontroller Name</i>	Displays the updates corresponding to that microcontroller. (Displays up to five microcontrollers for which the specify microcontroller function was used, most recent first.)
Download and install	Downloads the selected updates, and after the downloads are complete, install them.
Download only	Downloads the selected updates only.
Review update history	Displays the update history.
Restore hidden updates	Displays the Restore hidden updates page.
Change settings	Displays the Update Manager Options dialog box .
Help	Displays help.
Exit	Exits Update Manager.

(2) Main area

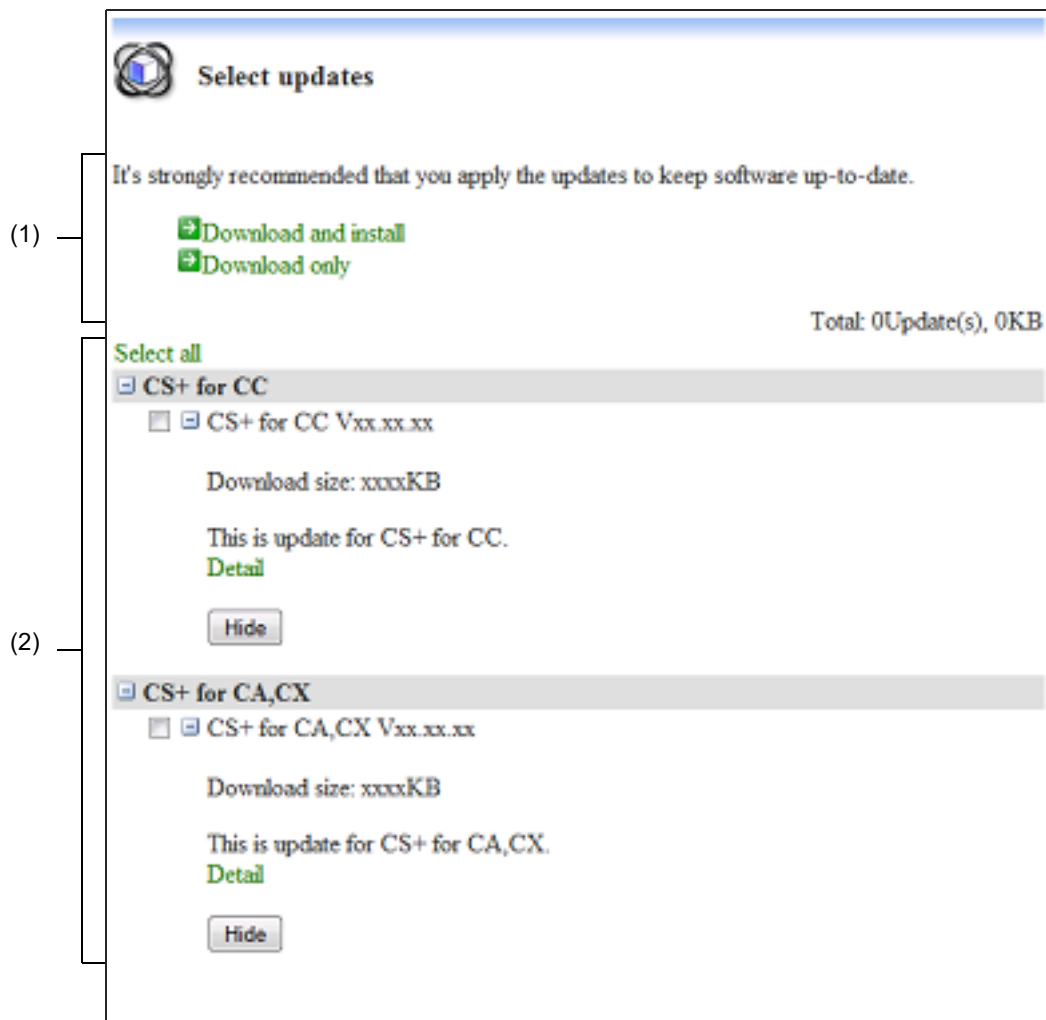
Switch the display to one of the following pages, in accordance with the active function.

- [Select updates page](#)
- [Download and install page](#)
- [Download only page](#)
- [Finish page](#)
- [History page](#)
- [Restore hidden updates page](#)
- [Error page](#)

Select updates page

This page displays a list of available updates. Select updates to download and install.

Figure A.2 Select updates Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- From the [CS+ Update Manager window](#) menu area, click [All].
- From the [CS+ Update Manager window](#) menu area, click [*Microcontroller Name*].

[Description of each area]

- (1) Select updates area
If a microcontroller was specified, the microcontroller name appears.

Download and install	Downloads the selected updates, and after the downloads are complete, install them.
Download only	Downloads the selected updates only.

- (2) Update selection area
Displays a list of items to update.
Click [Select all] to select the check boxes of all updates.
The following information is displayed for each update.

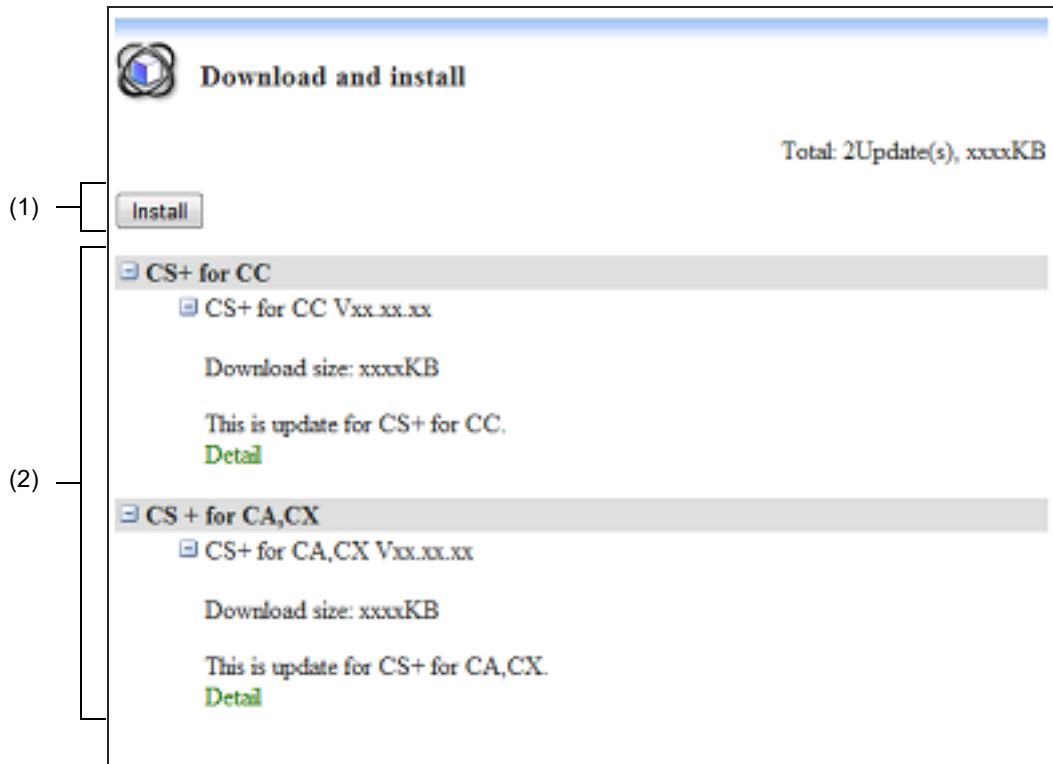
Category	Displays the category of the update. Available updates are listed under each category.
Title	Displays the title of the update.
Download size	Displays the download size of the update.
Summary	Displays a summary of the update information.
Detail	This appears if there is detailed information about the update. Selecting it will display details in a browser.

- (a) Button [Hide]
If an update is selected in the Update Selection area, it is completely hidden.

Download and install page

This page displays a list of selected updates, and starts the download and installation process.

Figure A.3 Download and install Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- From the [CS+ Update Manager window](#) menu area, click [Download and install].
- From the [Select updates page](#) main area, click [Download and install].

[Description of each area]

- (1) Button [Install]
Begins the download and installation process.
This button is disabled if no updates are selected.
Caution If an emulator USB driver is installed, the confirmation dialog box may appear.
- (2) Update Selection area
Displays a list of items to update.
The following information is displayed for each update.

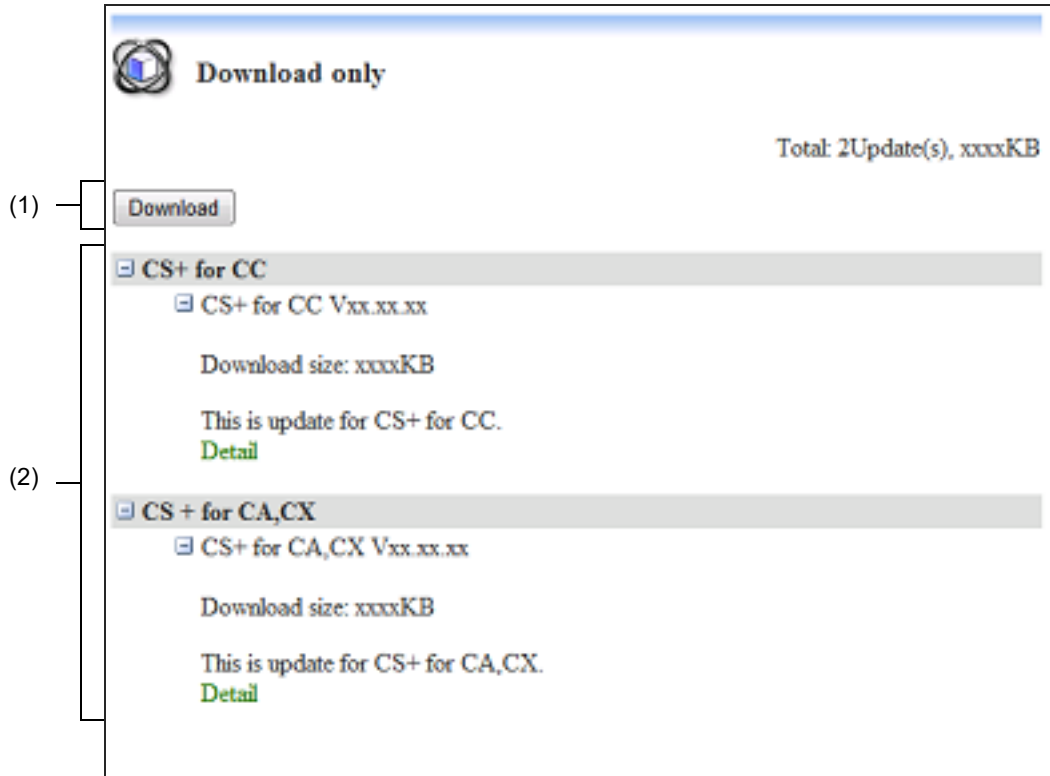
Category	Displays the category of the update. Updates with the same category are displayed together.
Title	Displays the title of the update.
Download size	Displays the download size of the update.
Summary	Displays a summary of the update information.

Detail	This appears if there is detailed information about the update. Selecting it will display details in a browser.
--------	---

Download only page

This page displays a list of selected updates, and starts the download process.

Figure A.4 Download only Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- From the [CS+ Update Manager window](#) menu area, click [Download only].
- From the [Select updates page](#) main area, click [Download only].

[Description of each area]

- (1) Button [Download]
Begins the download.
This button is disabled if no updates are selected.
- (2) Update Selection area
Displays a list of items to update.
The following information is displayed for each update.

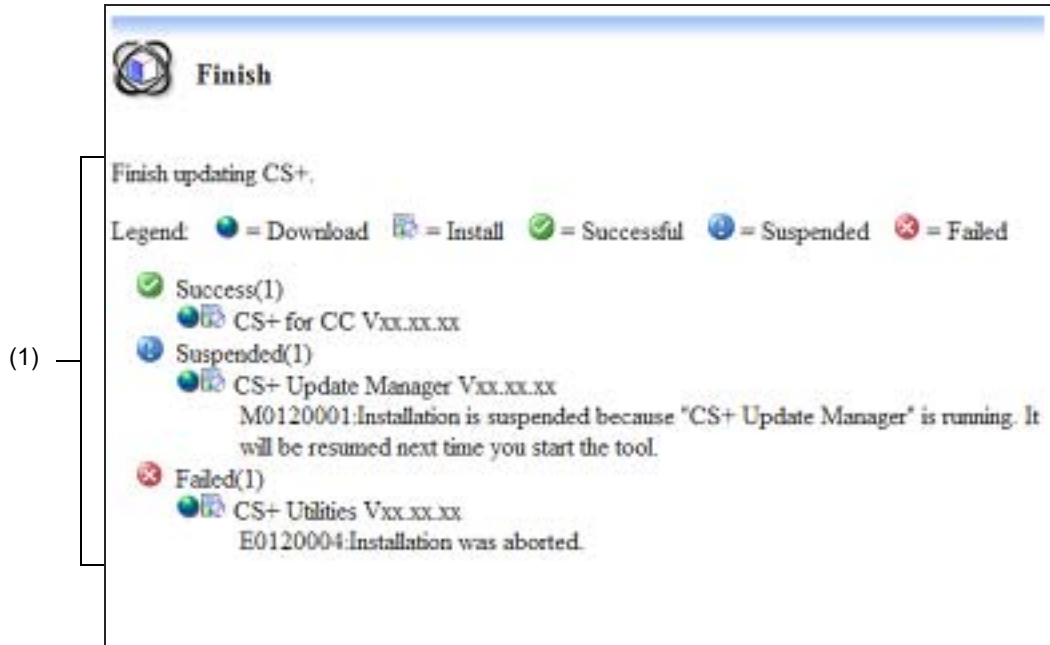
Category	Displays the category of the update. Updates with the same category are displayed together.
Title	Displays the title of the update.
Download size	Displays the download size of the update.
Summary	Displays a summary of the update information.

Detail	This appears if there is detailed information about the update. Selecting it will display details in a browser.
--------	---

Finish page

This page displays lists of successful, canceled, and failed updates.

Figure A.5 Finish Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- Opens automatically when the update completes.

[Description of each area]

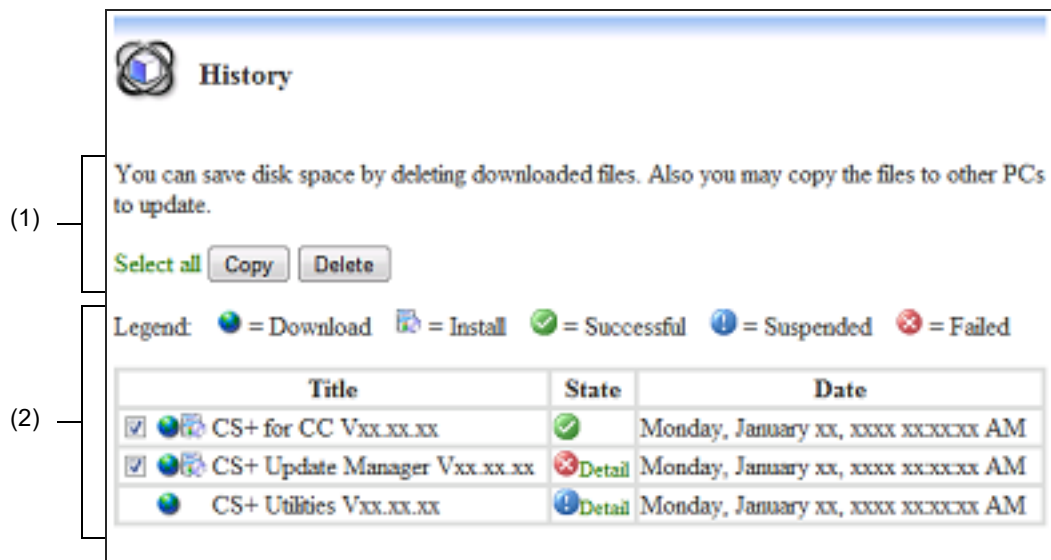
- (1) Update Results area
Displays a list of update results.

	Displays number of successful updates and update titles.
	Displays number of canceled updates, update titles, and messages.
	Displays number of failed updates, update titles, and messages.

History page

Use this page to display the history of updates performed, and to copy or delete update files.

Figure A.6 History Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- From the [CS+ Update Manager window](#) menu area, click [\[Review update history\]](#).

[Description of each area]

(1) Behavior Selection area

Select all	Selects all the check boxes in the Update History Display area.
Copy	Copies the selected updates to the specified folder.
Delete	Deletes the selected updates.

(2) Update History Display area

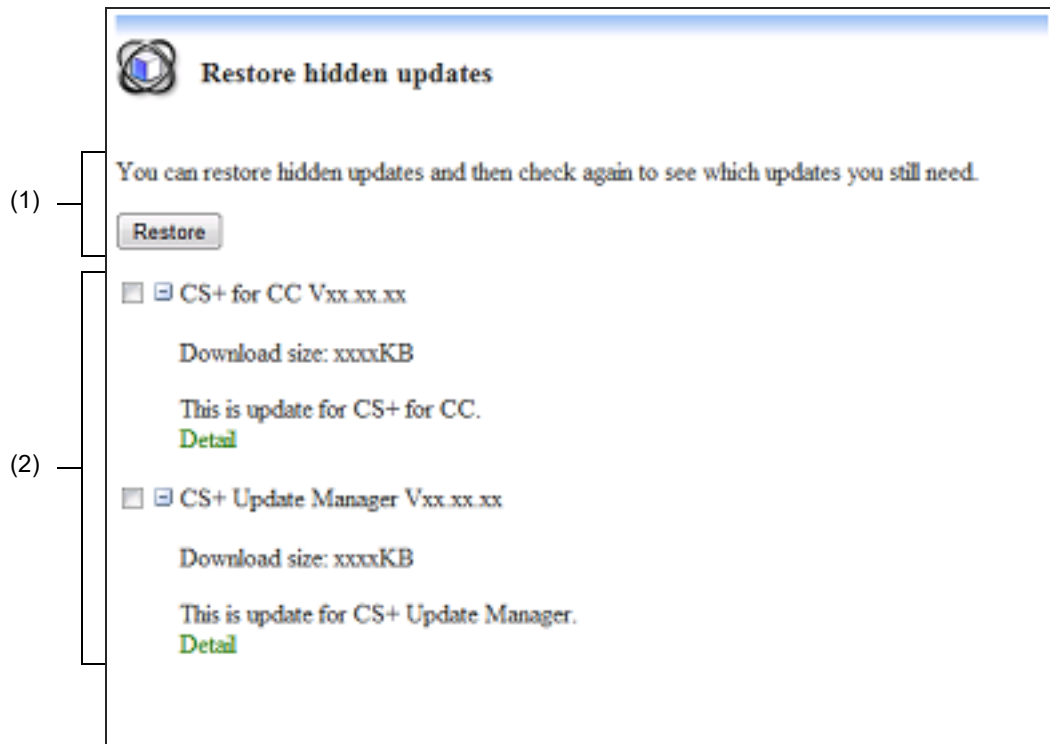
Displays a history of updates performed.

In the status column of the list, click [\[Detail\]](#) to display a message dialog box with a message corresponding to the results of the selected update.

Restore hidden updates page

Use this page to display a list of updates hidden in the [Select updates page](#), restore the visibility of the selected updates, and enable that update to be checked and installed again.

Figure A.7 Restore hidden updates Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- From the [CS+ Update Manager window](#) menu area, click [\[Restore hidden updates\]](#).

[Description of each area]

- (1) Button [\[Restore\]](#)
The selected updates become visible, enabling them to be re-checked and installed.
- (2) Hidden Updates Display area
Displays a list of updates that were hidden via the [Select updates page](#).

Error page

This page appears when acquisition of update information fails.

Figure A.8 Error Page



The following items are explained here.

- [\[How to open\]](#)
- [\[Description of each area\]](#)

[How to open]

- Opens automatically when acquisition of update information fails.

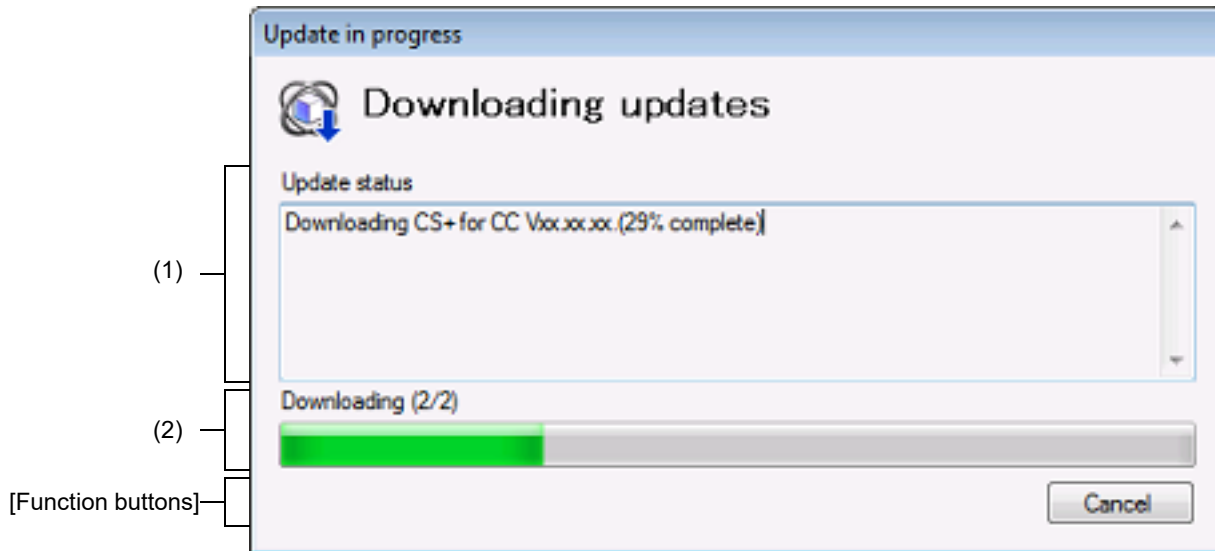
[Description of each area]

- (1) Message area
Displays a message that the acquisition of update information fails.
- (2) Button [Retry]
Re-acquires update information.

Update in progress dialog box

This dialog box displays the progress of update download and installation.

Figure A.9 Update in progress Dialog Box



The following items are explained here.

- [How to open]
- [Description of each area]
- [Function buttons]

[How to open]

- Opens automatically while downloading and installing updates.

[Description of each area]

- (1) [Update status] area
This area displays the current status of downloads and installs.
It automatically closes when the updates are downloaded and installed.
- (2) [Downloading/Installing] area
Displays the proportion of the size of target downloads that is complete.
Displays the proportion of the number of target updates installed that is complete.

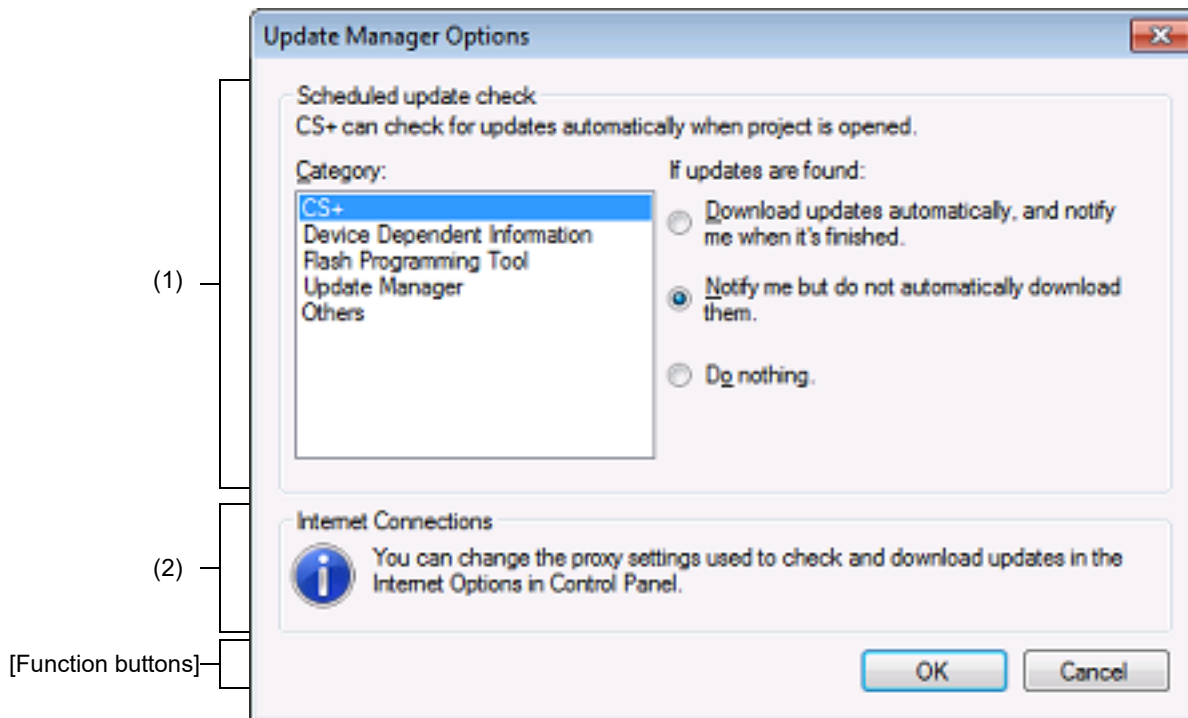
[Function buttons]

Button	Function
Cancel	Cancels the update.

Update Manager Options dialog box

This dialog box displays and changes the Update Manager options.

Figure A.10 Update Manager Options Dialog Box



The following items are explained here.

- [How to open]
- [Description of each area]
- [Function buttons]

[How to open]

- From the [CS+ Update Manager window](#) menu area, click [Change settings].

[Description of each area]

(1) [Scheduled update check] area

(a) [Category]

Select the category of for which to configure the behavior for found updates.

(b) [If updates are found]

Set the behavior for found updates.

Select the action to perform for the selected category.

- [Download updates automatically, and notify me when it's finished.]
If corresponding updates are found during periodic checks for updates, download them without asking for confirmation, and notify the user when the download is complete.
- [Notify me but do not automatically download them.]
If corresponding updates are found during periodic checks for updates, notify the user.
- [Do nothing.]
If corresponding updates are found during periodic checks for updates, do not notify the user.

- (2) [Internet Connections] area
Describes the Internet connection.

[Function buttons]

Button	Function
OK	Finalizes the settings, reflects them, and closes the dialog box.
Cancel	Cancel any changes made to the settings, and closes the dialog box.

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