[Upgrade to revision]

CS+ Integrated Development Environment V8.06.00

Overview

We will be revising the CS+ integrated development environment from V8.05.00 to V8.06.00.

1. Version to Be Updated

➢ CubeSuite+ Common Programs: V1.00.00 to V1.03.00 and V2.00.00 to V2.02.00

➢ CS+ Common Programs: V3.00.00 to V3.03.00, V4.00.00 to V4.03.00, V5.00.00, V6.00.00 to V6.01.00, V7.00.00, V8.00.01, V8.01.00 to V8.05.00

For how to confirm which version you currently have, refer to the following URL.
https://www.renesas.com/cs+_ver

2. Topics of Revision Description

The function described below has been added and enhanced in CS+ for CC.

- Improvement of the MCU search function for dialog boxes such as the Create New Project dialog box (applicable MCUs: RH850 family, RX family, and RL78 family)

The function was improved so that if a microcontroller name containing a detailed package code is entered in the microcontroller search box for the following dialog boxes, the microcontroller name containing package code"x" is hit:

Create Project dialog box, Project Convert Setting dialog box, or Change Microcontroller dialog box

Example: When "R5F51105AAF" is entered in the microcontroller search box,

R5F51105AxFK is hit.

3. Items Revised

3.1 CS+ Common Programs (with building, debugging, analysis, and other capabilities)

- The common programs of CS+ for CC (for RX, RH850, and RL78) have been updated from V8.05.00 to V8.06.00.
- The common programs of CS+ for CA,CX (for 78K, RL78, and V850) have been updated from V4.05.00 to V4.06.00.

The main items updated in CS+ for CC V8.06.00 and CS+ for CA, CX V4.06.00 are as follows.

(1) CS+ for CC (for RX family, RH850 family, and RL78 family)

The version has been updated from V8.05.00 to V8.06.00.

Main improvements are shown below. For more details, refer to the Release Notes. This information will be available from July 20.

https://www.renesas.com/software-tool/cs#documents

CS+ for CC V8.06.00 Release Note

(a) Additions and improvements to the build tool

- Added support for the following versions of the RH850 compiler from Green Hills Software, LLC.
  2021.1.5

For more information about GHS compiler, contact Green Hills Software, Inc.
http://www.adac.co.jp/

- Improvement of linker subcommand files

   The linefeed code was changed to CR+LF for a subcommand file, which is automatically created by CS+ during build and specified for the -subcommand option of the linker of CC-RL, CC-RH, or CC-RX.

   This allows the -subcommand option to be specified for the [Other additional options] property.

- Improvement of the update of dependencies for source files that were added after build processing

   In the [General - Build] category in the Option dialog box, the [Use compiler for updating dependencies to increase analysis accuracy than analysis speed when the functionality is available] option can now be used. With this option enabled, dependencies are updated during build processing after source files are added to the project tree.

   This prevents recompilation during rebuild processing if no changes have been made in the added source files.

(b) Additions and modification to the debugging tool

- Support for the RH850 compiler from Green Hills Software, LLC

   Support of the following version has been added.

   2021.1.5

- Additional microcontrollers supported by peripheral module and current consumption simulation function (Applicable MCUs: RL78 family)

   The following microcontroller is now supported:

   - RL78/G23 group[Note]

   Note: The current consumption simulation function is applicable to specific microcontrollers only.

   For more details, refer to the Release Notes. This information will be available from July 20.

   https://www.renesas.com/cs+_document

   RL78/G23 Simulator V1.01.00 Release Note

- Additional components supported by the Virtual Board panel (Applicable MCUs: RL78 family)

   The Virtual Board panel supports more components.

   - RSK LCD panel and RL78/Gx RSK LCD panel

   For details, see the user's manual. This information will be available from July 20.

   https://www.renesas.com/cs+_document

   CS+ V8.06.00 Integrated Development Environment User's Manual: RL78 Debug Tool

- Improved operation for setting of the serial window in simulators (Applicable MCUs: RL78 family)

   For more details, refer to the Release Notes. This information will be available from July 20.

   https://www.renesas.com/cs+_document

   CS+ for CC V8.06.00 Release Note

- Simulators were updated. (Applicable MCUs: RL78 family)

   For more details, refer to the Release Notes. This information will be available from July 20.

   https://www.renesas.com/cs+_document

   RL78/G23 Simulator V1.01.00 Release Note

   RL78/L12 Simulator V1.03.00 Release Note

(c) Improved functionality for Python console

- Python properties have been added.

For more details, refer to the Release Notes. This information will be available from July 20.

https://www.renesas.com/software-tool/cs#documents

CS+ for CC V8.06.00 Release Note

(2) CS+ for CA,CX (for 78K, RL78 family, and V850 family)

The version has been updated from V4.05.00 to V4.06.00.

For more details, refer to the Release Notes. This information will be available from July 20.

https://www.renesas.com/software-tool/cs#documents

CS+ for CA,CX V4.06.00 Release Note

3.2 Device Information

3.2.1 CS+ Device Information for RX Family

The version has been updated from V3.06.00 to V3.07.00.

The following revisions have been made in V3.07.00.

(1) Preliminary updates provided for upcoming CS+ updates

For details, see the following page. This information will be updated on July 20.

https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RX.html

3.2.2 CS+ Device Information for RL78 Family

The version has been updated from V8.05.00 to V8.06.00.

The following revisions have been made in V8.06.00.

(1) Addition of Supported Devices

Support for the following device has been added.

- RL78/G23 group

For details, see the following page. This information will be updated on July 20.

https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RL78.html

Note: This device information defines the SFR information of the devices of maximum ROM/RAM and number of pins in the RL78/G23 group. Therefore, it contains SFR information that is not included in your selected device. When designing/debugging a program, see RL78/G23 User's Manual: Hardware and check which SFR is included in your device.

3.3 Quick and Effective tool solution

The version has been updated from V9.05.00 to V9.06.00.

For details, see the following page. This information will be updated on July 20.

https://www.renesas.com/cs+/eng/CSPlus_QE.html

4. Support plan of CS+ Windows 32-bit edition and 64-bit edition

For CS+, only Windows 64-bit edition will be released from the next revision (planned for 2022).

Up to this version (V8.06.00) can be used as a Windows 32-bit edition environment.

5. Updating Your Product

Online updating is available free of charge. The method of updating depends on the edition of CS+.

Note 1. An evaluation edition of the CC-RL build tool will be included when you update from CubeSuite+ to CS+ V3.01.00 or later.

However, we are unable to lift the restrictions on the evaluation edition of CC-RL in response to customers holding licenses for earlier C compiler package for RL78 and 78K families (CA78K0R, CA78K0).

You will need to purchase the commercial edition of C compiler package for RL78 family (with IDE) V1 (CC-RL) if you wish to have the restrictions on the evaluation edition lifted.

Note 2. Even if you have a license for V1 of the C compiler package for RH850 family (CC-RH), the restrictions on the evaluation edition of V2 of the C compiler package for RH850 family (CCRH) will not be lifted.

If you wish to lift the restrictions, please purchase the commercial edition of V2 of the C compiler package for RH850 family (CC-RH).

Note 3. Even if you have a license for V1, V2 of the C/C++ compiler package for RX family (CC-RX), the restrictions on the evaluation edition of V3 of the C/C++ compiler package for RX family (CC-RX) will not be lifted.

If you wish to lift the restrictions, please purchase the commercial edition of V3 of the C/C++ compiler package for RX family (CC-RX).

Note 4. Refer to section 7 for details on how to purchase the product.

5.1 For CS+ V3.00.00 or Later

To update your program, use either of the following methods:

(1) From the Windows Start menu, select Renesas Electronics CS+ to start the Update Manager and update the program. This service will be available from July 20.

> Note: If your CS+ has been launched with rapid startup enabled, exit the CS+ once, and then run the Update Manager.
> If the CS+ is resident in the notification area of Windows (tray) due to rapid startup, an error occurs and produces the following message:

> _____
>
> M0120001
>
> "CubeSuiteW+.exe"
>
> Installation is suspended because "CubeSuiteW+.exe" is running.
>
> It will be resumed next time you start the tool.
>
> _____

(2) Download and install the desired software tools from the URL below.

(Download will be available as of July 20.)

https://www.renesas.com/software-tool/cs#documents

5.2 For CubeSuite+ V2.00.00 to 2.02.00

Update your file in the same way as described in 4.1.

In the description, change the name from "Renesas Electronics CS+" to "Renesas Electronics CubeSuite+".

5.3 For CubeSuite+ V1.03.00 or Earlier

CubeSuite+ V1.03.00 or earlier versions do not support Update Manager.

Download the evaluation edition of CS+ for CC V8.06.00 or CS+ for CA,CX V4.06.00 to install the update. (Download will be available as of July 20.)

https://www.renesas.com/software-tool/cs#documents

6. Evaluation Software

The evaluation edition allows for evaluation of product performance and functionality prior to purchasing.

Download the evaluation edition of CS+ for CC or CS+ for CA,CX from the following URL.

The installer will be available from July 20.

https://www.renesas.com/software-tool/cs#documents

You can turn the evaluation edition into the commercial edition by inputting a license for CubeSuite,CubeSuite+ or compiler products at installation.

7. Purchasing the Product

Please purchase a compiler product which includes CS+.

For product ordering, contact your local Renesas Electronics sales office or distributor with the following information.

For product pricing, make inquiries in the same manner.

The compiler products which include CS+ are as follows.

- C Compiler and IDE for RH850 Family Professional edition
- C Compiler and IDE for RH850 Family Standard edition
- C/C++ Compiler and IDE for RX Family Professional edition
- C/C++ Compiler and IDE for RX Family Standard edition
- C Compiler and IDE for RL78 Family Professional edition
- C Compiler and IDE for RL78 Family Standard edition
- C Compiler and IDE for RL78, 78K Family
- C Compiler and IDE for V850 Family

Note: Since the CS+ which is included with a compiler product may not be the latest version, you may need to update it with reference to section 5 before using it.

Although CS+ is not included with a complier product with an annual license, you can use CS+ by installing an evaluation edition of CS+ for CC. For how to download the evaluation edition, refer to section 6.

For more information, see the product page at the following URL.

C Compiler Package for RH850 Family: https://www.renesas.com/rh850_c

C/C++ Compiler Package for RX Family: https://www.renesas.com/rx_c

C Compiler Package for RL78 Family: https://www.renesas.com/rl78_c

C Compiler Package for V850 Family: https://www.renesas.com/v850_c

C Compiler Package for RL78, 78K Families: https://www.renesas.com/rl78_78k_c

Information about compiler licenses is available in the following web page.

https://www.renesas.com/compiler_licenses

Revision History

Rev.	Date	Description	
		Page	**Summary**
1.00	Jul.16.21	-	First edition issued

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Contact information

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