

[Upgrade to Revision]

R20TS0858EJ0101

Rev.1.01

CS+ Integrated Development Environment V8.08.00

Jul. 16, 2022

Outline

The CS+ integrated development environment has been updated from V8.07.00 to V8.08.00.

1. Products to Be Updated

➤ CubeSuite+ Common Program

V1.00.00 to V1.03.00, V2.00.00 to V2.02.00

➤ CS+ Common Program

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 V8.07.00

Refer to the link below for “How to Find the Version Number in CS+”.

[https://www.renesas.com/cs+ ver](https://www.renesas.com/cs+_ver)

2. Topic

- Changing the property settings of the build tool when, for example, the MCU is changed (RL78 Family and RH850 Family)

When one of the following functions is used, the build options are automatically adjusted according to the specified MCU. In addition, the startup source file for the MCU is output to a subfolder of the project folder (this file is provided for reference and is not registered in the project).

Function	RH850	RL78
Changing the MCU	Adjusted	Adjusted
Creating a project (When the file configuration of an existing project is used)	Adjusted	Adjusted
Converting a project	Not adjusted	Adjusted

3. Description

3.1 CS+ Common Program (Build, Debug, Analytical Features etc.)

- The Common Program of CS+ for CC (for RX, RH850, and RL78 Family) has been updated from V8.07.00 to V8.08.00.

CS+ for CC V8.08.00 includes the following updates.

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

CS+ for CC has been updated from V8.07.00 to V8.08.00.

The main changes are as follows. For details, refer to the release note at the link below. (The note will be uploaded on July 20.)

<https://www.renesas.com/software-tool/cs#document>

CS+ for CC V8.08.00 Release Note

(a) Improvements in the build tool

- The following version of the RH850 compiler from Green Hills Software LLC is now supported. (RH850 Family)
 - 2022.1.4

For more information about GHS compilers, contact Green Hills Software LLC.

<http://www.ghs.com/>

- Improvement of the initial value of the -cpu option during creation of a GHSCCRH850 project (RH850 Family)
The initial value of the -cpu option is now appropriately set during creation of a GHSCCRH850 project.

(b) Improvements in the debug tool

- Support for the RH850 compiler from Green Hills Software LLC. (RH850 Family)
The following version is now supported.
 - 2022.1.4
- More devices are supported by the current consumption simulation function (RL78 Family)
Added target devices for current consumption simulation of the following MCUs.
 - RL78/G23 group ^(Note)

Note: In this revision, the current consumption simulation function is available for all the devices of the RL78/G23 group.

For details, refer to the release note at the link below. (The note will be uploaded on July 20.)

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

RL78/G23 Simulator V1.03.00 Release Note

- Virtual board panel (RL78 Family)
The panel supports the following.
 - Wi-Fi module (UART)

For details, refer to the user's manual at the link below. (The manual will be uploaded on July 20.)

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

CS+ V8.08.00 Integrated Development Environment User's Manual: RL78 Debug Tool
- Displaying a list of pins in the virtual board panel (RL78 Family)
The following functions have been added. (1) The function to display a list of all the pins of an MCU in the virtual board panel to view the usage of each pin. (2) The function to enter digital and analog values in the pins.

For details, refer to the user's manual at the link below. (The manual will be uploaded on July 20.)

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

CS+ V8.08.00 Integrated Development Environment User's Manual: RL78 Debug Tool

- Loading evaluation board component information into the virtual board panel (RL78 Family)
It is now possible to select whether to load information about the connections between the components mounted on the evaluation board and the MCU into the virtual board panel when this panel is started for the first time. Note, however, that selection is possible only when the evaluation board is supported by the virtual board panel and the MCU selected in the project matches the MCU used by the evaluation board.

For details, refer to the release note at the link below. (The note will be uploaded on July 20.)

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

CS+ for CC V8.08.00 Release Note

- Deleting monitoring points using the [Measuring Current Consumption] panel (E2, RL78, RX Family)
Monitoring points of the current consumption measurement could be deleted only by the editor.
From this revision, the points can also be deleted by pressing the [delete] key in the monitoring point list in the [Measuring Current Consumption] panel.

For details, refer to the user's manual at the link below. (The manual will be uploaded on July 20.)

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

CS+ V8.08.00 Integrated Development Environment User's Manual: RL78 Debug Tool

CS+ V8.08.00 Integrated Development Environment User's Manual: RX Debug Tool

- Support for DFP debugging (target: RH850/U2B series, E2 emulator)
RH850/U2B series devices with DFP can now be debugged in conjunction with the G4MH core and DFP, using NSITEXE's DR1000C Debugger/IDE as the debugger for DFP.

For details, refer to the user's manual at the link below.

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

CS+ V8.08.00 Integrated Development Environment User's Manual: RH850 Debug Tool

<https://www.renesas.com/software-tool/e2-emulator#document>

E2 Emulator Additional Document for User's Manual

(Setting up Interlocked Debugging of the DFP in an RH850/U2B-Series Device)

(c) Improvements in the Python console

- Python functions, properties, and classes have been added and changed.

For details, refer to the release note at the link below. (The note will be uploaded on July 20.)

<https://www.renesas.com/software-tool/cs#document>

CS+ for CC V8.08.00 Release Note

3.2 Device Information

The device information of CS+ for CC has been updated as follows.

3.2.1 CS+ Device Information for RX Family

The information has been updated from V3.09.00 to V3.10.00.

V3.10.00 includes the following updates.

- (1) The information has been updated for future CS+ updates.

For details, refer to the link below. (The information will be updated on July 20.)

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

3.2.2 CS+ Device Information for RH850 Family

- (1) Addition of supported devices

The following devices are now supported.

- RH850/F1KM-S4 group (high-temperature-tolerant products)
- RH850/U2B group

Note: Type names selected in the U2B group debugger

Selection of type names in the U2B group debugger is specified for each series rather than for each package.

For details, refer to the link below. (The information will be updated on July 20.)

https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RH850.html

- RH850/U2A group

(2) Correction of device information

The following device information has been corrected.

- RH850/U2A group

For details, refer to the link below. (The information will be updated on July 20.)

4. Updating the Product

CS+ can be updated online free of charge. Note that how you update varies depending on the version/revision. Refer to the following and update accordingly.

Note 1: If you update CubeSuite+ to CS+ V3.01.00 or later, the free evaluation edition of the CC-RL build tool is provided.

The license for the C Compiler Package for the RL78 and 78K Families (CA78K0R, CA78K0) does not lift the restrictions on the CC-RL free evaluation edition.

In order to lift the restrictions, purchase the commercial edition of the C Compiler Package for RL78 Family V1 (CC-RL).

Note 2: The license for the C Compiler Package for RH850 Family V1 (CC-RH) does not lift the restrictions on the free evaluation edition of V2 (CC-RH) of the package.

In order to lift the restrictions, purchase the commercial edition of the C Compiler Package for RH850 Family V2 (CC-RH).

Note 3: The licenses for the C/C++ Compiler Package for RX Family V1 and V2 (CC-RX) do not lift the restrictions on the free evaluation edition of V3 (CC-RX) of the package.

In order to lift the restrictions, purchase the commercial edition of the C/C++ Compiler Package for RX Family V3 (CC-RX).

Note 4: For how to purchase a compiler package, refer to section 6.

4.1 CS+ V3.00.00 or Later

Update in either of the following ways.

- (1) On the Windows Start menu, select Renesas Electronics CS+ and start the Update Manager. (The service will be available from July 20.)

Note: If you have started CS+ with the Rapid Startup function enabled, exit CS+ and then start the Update Manager.

If the Rapid Startup is enabled and CS+ is shown in the Windows notification area, the following error message appears.

M0120001

"CubeSuiteW+.exe"

Installation is suspended because "CubeSuiteW+.exe" is running.

It will be resumed next time you start the tool.

- (2) Download the new revision from the link below (available from July 20).

<https://www.renesas.com/software-tool/cs#download>

4.2 CubeSuite+ V2.00.00 to V2.02.00

Refer to 4.1 and update in the same way.

Make sure to change the name "Renesas Electronics CS+" in the description to "Renesas Electronics CubeSuite+".

4.3 CubeSuite+ V1.03.00 or Earlier

The Update Manager does not support CubeSuite+ V1.03.00 and earlier.

Download CS+ for CC V8.08.00 from the link below (available from July 20).

<https://www.renesas.com/software-tool/cs#download>

5. Free Evaluation Edition

Before purchasing a compiler package, you can try its functions and performance with the free evaluation edition.

The free evaluation edition of CS+ for CC is available for download at the link below.

(The installer will be available from July 20.)

<https://www.renesas.com/software-tool/cs#download>

You can convert the free evaluation edition into the commercial edition by entering a license for CubeSuite, CubeSuite+, or a compiler package.

6. Purchasing the Product

If you use the CS+ IDE for developing products, a compiler package is required. Purchase the one that suits.

Contact your local Renesas Electronics sales office or distributor for the compiler packages.

Regarding the prices, contact the sales office or distributor.

CS+ supports the following packages.

- C Compiler Package for RH850 Family Professional Edition
- C Compiler Package for RH850 Family Standard Edition
- C/C++ Compiler Package for RX Family Professional Edition
- C/C++ Compiler Package for RX Family Standard Edition
- C Compiler Package for RL78 Family Professional Edition
- C Compiler Package for RL78 Family Standard Edition
- C Compiler Package for the RL78 and 78K Families
- C Compiler Package for V850 Family

Note: The compiler packages no longer include the installation medium (CD/DVD) from January 2022.

The installers are available for download at the Renesas website. Refer to section 4 for more information.

For details of the packages, refer to the following links.

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 the RL78 and 78K Families: https://www.renesas.com/rl78_78k_c

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

Regarding the compiler licenses, refer to the link below.

https://www.renesas.com/compiler_licenses

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jul.16.22	-	First edition issued
1.01	Sep.30.22	3	Added note regarding " Support for DFP debugging"

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