

RENESAS TOOL NEWS on October 16, 2015: 151016/tn1

Integrated Development Environment CS+ Revised to V3.02.00

We will be revising the CS+ integrated development environment from V3.01.00 to V3.02.00.

1. Product and Versions to Be Updated

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

CS+ Common Program V3.00.00 to V3.01.00

For how to confirm which version you currently have, refer to the following URL.

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

2. Descriptions of Revision

2.1 Addition of basic facility

- Support for Windows 10 (32- and 64-bit) has been added.

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

- The common programs of CS+ for CC (RX, RH850, and RL78) have been updated from V3.01.00 to V3.02.00.
- The common programs of CS+ for CA, CX (78K, RL78, and V850) have been updated from V3.00.01 to V3.01.00.

The main items updated in CS+ for CC V3.02.00 and CS+ for CA, CX V3.01.00 are as follows.

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

(a) Improved basic facilities

- A project file monitoring facility has been added.
- The process of renaming project files has been changed.
- The message dialog has been enhanced.

- A splash window has been added.
- Contents of the Option dialog box ("General - Build" category) have been expanded.
- A full-screen display facility has been added.
- Support for the RH850/D1x series and RH850/P1x-C series of the RH850 family has been added.

(b) Additions to the Editor panel

- A facility for making the Editor panel a floating window has been added.
- An incremental search facility has been added.
- A change was made so that plug-ins on the Editor panel are not disabled by the "/np plug-in name" option or "/nall" option when handling processing from the command line.

(c) Addition to the build tool

- A facility for reflecting all values set as properties of the build tool in all build modes has been added.

(d) Additions to the memory map profiler

- A facility for changing the build options collectively to those suitable for profiling has been added.
- A facility for jumping to the Editor panel has been added. This reduces the time from the confirmation of memory mapping to the reference to and editing of source files.
- A facility for changing names in the memory map has been added.
- The facility for saving files has been expanded.

(e) Addition to the debugging tools

- A facility for saving after expanding watched data has been added.

This facility allows the saving of parts of watched items such as the elements of arrays, members of structures and unions, items pointed to by pointer-type variables, and bits and bit fields of registers* while they are being displayed in expanded form.

*: Only those named bits and bit fields which can be displayed as such in the watchlist.

(f) Fixed problem with the debugging tools

- The problem regarding the following point, of which we informed you in RENESAS TOOL NEWS Document No. 150416/tn2, has been fixed.

Statements in source code which form deeply-nested blocks

For details of the problem, refer to the following URL.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=150416tn2>

(g) Greater flexibility in I/O header file generation

- A facility for customizing I/O header files has been added. This allows the selection of only required modules and the division of I/O header files (RH850 family only).
- A facility for the output of I/O header file satisfying MISRA-C:2004 rules (Rules 6.3, 6.4, 10.6, and 18.4) has been added (RL78 family and RH850 family only).

(h) Additions to the analysis tool

- The facility for enabling dynamic analysis has been expanded.
- The function attribute in the Function List panel has been extended to support the callt function of the RL78 family CC-RL compiler.
- A facility for displaying execution times in the Function List panel has been added (RH850 family only).
- Execution times can now be displayed in clock-cycle units (RH850 family only).

(i) Improved functionality for Python console

- Python functions for saving the state of the debugging tool in a file have been added.

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

(a) Improvement of the debugging tools (for the V850 family*)

- The times for the following debugging tools to start up have been reduced.

MINICUBE, E1/E20 (JTAG), E1/E20 (LPD)

*: Only supported for the V850E2M and V850E2S cores.

2.3 Build tools

(1) CC-RH (build tool for RH850)

The version has been upgraded from V1.02.00 to V1.03.00.

For details, go to:

https://www.renesas.com/cubesuite+/CubeSuitePlus_CC-RH.html

This information will be available from October 20.

(2) CC-RX (build tool for RX)

The version has been upgraded from V2.03.00 to V2.04.00.

For details, go to:

https://www.renesas.com/cubesuite+/CubeSuitePlus_CC-RX.html

This information will be available from October 20.

(3) CC-RL (build tool for RL78)

The version has been upgraded from V1.01.00 to V1.02.00.

For details, go to:

https://www.renesas.com/cubesuite+/CSP_CC-RL.html

This information will be available from October 20.

2.4 Code Generators

(1) RL78 Code Generator for CS+ (CS+ for CC)

The version has been upgraded from V2.09.00 to V2.10.00.

Since this updating is only a change of version number associated with the updating to the CS+, there is no change in the function.

(2) RL78 Code Generator for CS+ (CS+ for CA, CX)

The version has been upgraded from V2.09.00 to V2.10.00.

Since this updating is only a change of version number associated with the updating to the CS+, there is no change in the function.

2.5 Device information file

(1) RL78 device information file managed by CS+ (CS+ for CC)

This file has been upgraded from V3.00.03 to V.3.00.04.

The following revisions were made in V3.00.04.

(a) Startup routines modified

The startup routines for MCUs which have no mirror area have been modified.

For details, go to:

https://www.renesas.com/cubesuite+/CSP_DevInfo_RL78.html

This information will be available from October 20.

(2) RH850 device information file managed by CS+

This file has been updated from V3.00.02 to V3.00.03.

The following revisions were made in V3.00.03.

(a) Addition of supported MCUs

The following MCUs have been added to the support line:

- RH850/D1L group of MCUs (RH850 family)
- RH850/D1M group of MCUs (RH850 family)
- RH850/P1M-C group of MCUs (RH850 family)
- RH850/P1H-C group of MCUs (RH850 family)
- RH850/F1H group of MCUs (RH850 family)
- RH850/F1M group of MCUs (RH850 family)

(b) Modification of device information

The device information relevant to the following MCUs has been modified:

- RH850/E1L group of MCUs (RH850 family)

- RH850/E1M-S group of MCUs (RH850 family)
- RH850/F1H group of MCUs (RH850 family)
- RH850/F1M group of MCUs (RH850 family)
- RH850/P1M group of MCUs (RH850 family)

For details, go to:

https://www.renesas.com/cubesuite+/CubeSuitePlus_DevInfo_RH850.html

This information will be available from October 20.

2.6 USB drivers

The following USB drivers have been integrated and the new driver supports CS+ V3.02.00.

- USB driver for IE850 (32-bit edition)

The version has been upgraded from V1.10.10 to V2.76.01.

- The installer of the USB driver for MCU tools (64-bit Windows OS)

This program has been updated from V2.76.00 to V2.76.01.

2.7 CS+ utility

The version has been upgraded from V3.01.00 to V3.02.00.

For details, go to:

https://www.renesas.com/cubesuite+/CubeSuitePlus_Uilities.html

This page will be updated on October 20.

3. Updating Your Product

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

Note: An evaluation edition of the CC-RL build tool is included if you update to CS+ V3.02.00.

However, we are unable to lift the restrictions on the evaluation edition of CC-RL in response to a customer holding a license for an earlier RL78, 78K family C compiler package (CA78K0R, CA78K0). You need to purchase the commercial edition of RL78 family C compiler package (with IDE) V1 (CC-RL) if you wish to have the restrictions on the evaluation edition lifted.

Refer to "5. Purchasing the Product" for details.

3.1 For CS+ V3.00.00 or Later

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

- (1) On the "Start" menu, select "Programs" and then "Renesas Electronics CS+" to start the Update Manager.

This service will be available on and after October 20.

Note:

If your CS+ has been launched with rapid startup enabled,

exit the CS+ once, and then run the Update Manager.
If the CubeSuite+ is resident in the notification area of Windows (system tray) due to rapid startup, an error occurs and produces the following message:

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

- (2) Download the software tools you want from the web site at:
https://www.renesas.com/cs+_download
The program will be available from October 20.

3.2 For CubeSuite+ V2.00.00 to 2.02.00

Update this in the same way as is described above under 3.1.

3.3 For CubeSuite+ V1.03.00 or Earlier

Download and install the evaluation edition of CS+ for CC V3.02.00 or CS+ for CA, CX V3.01.00 from the following URL:

https://www.renesas.com/cs+_download
The program will be available from October 20.

4. Downloading Evaluation Edition

Before purchasing any of the commercial editions of CS+, you can evaluate its performance and functionality by using the evaluation edition of CS+ for CC or CS+ for CA, CX.

To do so, download the evaluation edition from our Web site at:
https://www.renesas.com/cs+_download
The installer will be available on this page from October 20.

You can turn the evaluation edition into the commercial edition when installing the evaluation edition through the input of a license for CubeSuite, CubeSuite+, or separately purchased CS+.

Note: Even if you have a license for V1 of the CA78K0R or CA78K0RL78 C compiler (conventional C compiler for RL78, 78K family), the restrictions on the evaluation edition of V1 of the RL78 family C compiler package (CC-RL) will not be lifted, since the latter is a new product with significantly enhanced capabilities.
If you wish to lift the restrictions, please purchase the commercial edition of V1 of the RL78 family C compiler package (CC-RL).

5. Ordering

When ordering, please contact your local Renesas Electronics marketing office or distributor.

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