To our customers,

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Renesas Electronics Corporation

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Limitation on using E10A-USB emulator software with C/C++ compiler package

E10A-USB emulator has some restrictions depending on version of the C/C++ compiler package to be used together. Please take note of the detail explanation for the limitations.

For SuperH RISC engine family

C/C++ Compiler Package Version	V5 and previous	V6	V7 and above
Program loading	○	○	○
Source level debugging	X	○	○
Supplementary explanation for limitations	Detail	Detail	-

For H8S, H8 family

C/C++ Compiler Package Version	V3 and previous	V4	V5 and above
Program loading	○	○	○
Source level debugging	X	○	○
Supplementary explanation for limitations	Detail	Detail	-

Renesas C/C++ compiler package for SuperH RISC engine family V5 and previous

E10A-USB emulator can download data in the following format type.

- ELF/Dwalf2 :A file with debug information .abs
- S-Record :A file in motorola format .mot
- Binary
- IntelHex

In order to debug a program at source code level, the program needs to be downloaded in ELF/Dwalf2 format type. However, C/C++ compiler package for SuperH RISC engine family V5 and previous generate a file with debug information (.abs) in SYSROF format which E10A-USB emulator does not accept. Please create a file in either format of S-Record, Binary or Intel Hex.

【How to create a file in S-Record, Binary or Intel Hex format】

Please select either of the following format for output file in Linker option

1. Stype via absolute
2. HEX via absolute
3. Binary via absolute

More than two years has erapsed since the C/C++ compiler package for SuperH RISC engine family V5 was released. The operational performance and code efficiency has much developed, and support services has been enriched so far. We recommend the switch to the latest version.

Renesas C/C++ compiler package for SuperH RISC engine family V6

High-performance Embedded Workshop V.3.x can not create a startup routine by using a project generator. The startup routine need to be created by High-performance Embedded Workshop V.1.x which is bundled with Renesas C/C++ compiler package for SuperH RISC engine family V6.

Also, please be note that any project created by High-performance Embedded Workshop V.1.x will not open in High-performance Embedded Workshop V.1.x once you open it in High-performance Embedded Workshop V.3.x.

More than two years has erapsed since the C/C++ compiler package for SuperH RISC engine family V6 was released. The operational performance and code efficiency has much developed, and support services has been enriched so far. We recommend the switch to the latest version.

Renesas C/C++ compiler package for H8S and H8 family V3 and previous

E10A-USB emulator can download data in the following format type.

- ELF/Dwalf2 :A file with debug information .abs
- S-Record :A file in motorola format .mot
- Binary
- IntelHex

In order to debug a program at source code level , the program needs to be downloaded in ELF/Dwalf2 format type. However, C/C++ compiler package for H8S and H8 family V3 and previous generate a file with debug information (.abs) in SYSROF format which E10A-USB emulator does not accept. Please create a file in either format of S-Record, Binary or Intel Hex.

【How to create a file in S-Record, Binary or Intel Hex format】

Please select either of the following format for output file in Linker option

1. Stype via absolute
2. HEX via absolute
3. Binary via absolute

More than two years has erapsed since the Renesas C/C++ compiler package for H8S and H8 family V3 was released. The operational performance and code efficiency has much developed, and support services has been enriched so far. We recommend the switch to the latest version.

Renesas C/C++ compiler package for H8S and H8 family V4

High-performance Embedded Workshop V.3.x can not create a startup routine by using a project generator. The startup routine need to be created by High-performance Embedded Workshop V.1.x which is bundled with Renesas C/C++ compiler package for H8S and H8 family V4.

Also, please be note that any project created by High-performance Embedded Workshop V.1.x will not open in High-performance Embedded Workshop V.1.x once you open it in High-performance Embedded Workshop V.3.x.

More than two years has erapsed since the Renesas C/C++ compiler package for H8S and H8 family V4 was released. The operational performance and code efficiency has much developed, and support services has been enriched so far. We recommend the switch to the latest version.