

e2studio 1.0.1.014 SR1 Release Note: 6th June 2012

Fixed issues in SR1

ID	Component	Description
166	RL78 build plugin	Build file for RX C rebuilds file every time rather than only building when changes are needed.
279	Application	GDB server and port number although configurable are currently hard coded.
576	Real-time Watch	Structure dereferencing not available in the real time expression window.
791	Application	Importing projects does not allow an easy way to move the toolchain path if the toolchain is either in a different location or does not exist.
876	Application	Unable to set OA Address range for RX targets. Workaround: set another eventpoint first to channel 0.
902	Application	After adding a new build configuration the new configuration cannot be built successfully.
490	Application	e2studio current GDB versions do not support the python scripting switches.
1054	Application	Only two RL78/D1A devices are currently supported. R5F10DPG , R5F10DPJ. More devices are required to be added.
1249	Application	Realtime does not work with old RL78 launch configurations
1245	GDB Server EXEC	RL78 realtime only allows monitoring of 8 bytes.

Open issues in SR1

ID	Component	Description
827	Advanced Debug Manager (ADM)	Setting "Force Hardware Breakpoints" in the debug configuration will cause eventpoints to stop functioning.
16	Application	When debugging Segger J-Link application using RX, at the first (invalid) breakpoint, it shows garbage values for global variables.
40	Application	The message "Error: Unable to create variable object" is sometimes shown during debugging when stepping out of functions.
41	Application	Register values have incorrect initial values when using the RX Simulator or RX hardware debugging. Initially, R0 values are same as ISP in E2S whereas R0 values are same as USP in the HEW environment. R0 is alias to USP. Later on the R0 values are same as ISP / USP depending on the stack usage. Incorrect Accumulator value is displayed (i.e, Accumulator is 0, when checked on command line as well, gdb does not update accumulator values). This is a RX Simulator issue.
91	Application	If skip all breakpoints is clicked with the target running & multiple breakpoints are set, GDB returns the following error and the debug session is terminated. 961,041 ~"Interrupted while waiting for the program.\n" 961,041 ~"Give up (and stop debugging it)? (y or n) [answered Y; input not from terminal]\n" 961,042 =thread-group-exited,id="42000" 961,042 29^error,msg="unknown error" 961,042 (gdb)
110	Application	e2studio needs permissions to write to the installation directory. This is a standard Eclipse problem however you may experience issues registering your toolchains or performing updates if you do not have administration access when using directories with restricted access.
112	Application	When using the RX C compiler, value assignments to ports (declared in the header files) are shown as syntax errors in the editor view.
180	Application	Hex display rendering of memory does not correctly handle endian. Suggest to use the traditional rendering or use the memory browser.
238	Application	Dependency to be handled in case CPU is changed from RX200 to RX600 under compiler CPU, then library generator and assembler should also be updated with the latest CPU option. This does not work as expected currently. CPU option is not correctly passed to assembler and library generator during project build.
268	Application	When debugging in e2studio only the file name is used to match breakpoints when debugging. So a breakpoints set in a different project to the one being debugged can cause breakpoints to be set on the debugger, if the file name matches. There is no indication in the breakpoints view which project a breakpoint is in, but the marker will only appear in the correct file.
280	Application	Multiple debuggers cannot be connected to the PC at the same time when using e2studio. For example it is not possible to connect 2 E1 emulators to different e2studio application instances at the same time. The HEW IDE environment can support this feature.

		In case of MinGW toolchain projects - Whenever you add any include path in the compiler / assembler include path option, it is displayed in the Project Explorer -> <prj_name> -> Includes. In case of KPIT / Renesas toolchain projects - Whenever you add any include path in compiler / assembler include path option, it is not displayed in the Project Explorer -> <prj_name> -> Includes.
364	Application	It only displays the default include paths added during project generation. The include paths are shown in the build option preferences as you would expect.
370	Application	Following a product update the product version on the about box installation history does not get updated.
549	Application	When entering address, compare and mask values for an eventpoint, hex digits are assumed. The dialog should assume field values are decimal unless prefixed by a modifier such as "0x" for hex. This is for consistency with data entry and presentation throughout Eclipse/CDT.
558	Application	The CPU reset in the Renesas debug view does not highlight the PC in the editor.
593	Application	Error Parser tab displays non accessible IDs.
		Custom debug configuration.
		Warning message to be generated if custom.bat is empty
		Test case : to check if the default settings of predefined Custom Debug launch configuration are correct. Steps: 1. Create a project for custom debug configuration. Select Custom Debug' on 'Select default debug settings' page while creating the project. 2. Don't update custom.bat with any path. 3. Build the project 4. click debug icon. If user has not specified any path in custom.bat and clicks the debug button, user should get warning message that file is empty.
652	Application	
671	Application	There is no library project type available in e2studio.
		The JTAG frequency in Eclipse is not used for Segger connected devices. Interface to the Segger device is currently done through the J-link application. This applies to any other settings defined by the J-Link application to setup the Segger chip.
690	Application	
700	Application	RL78 Importing projects from 64bit to 32bit machines does not work seamlessly. The path changes are not remembered in Linker > Archives in the Archive search directories. When doing builds this is not always remembered.
		Un-installing HEW, un-installed RXC toolchains 1.1.0 and 1.2.0 However the entry in TC_supported remains as expected, but due to this E2S allows to create projects for RXC toolchains and fails during project build.
711	Application	
737	Application	When restart is used the target does not stop at the breakpoint set in the Start-up tab in debug configurations.
813	Application	The RL78 IECUBE debugger does not currently have an option to automatically write down the Option Bytes in the same manner as the E1.
		HEW debug fails for RX200, RX63N. HEW debugging templates do not exist for RX200 and RX63N.
846	Application	
		Eventpoints are project based in e2studio rather than workspace based. A side-effect of this limitation is that eventpoints can only be set in project source code.
882	Application	
901	Application	Building a project after renaming fails to build. "Artifact Name" is not being changed.
904	Application	Warnings are duplicated as errors in the problems view when using the CCRX compiler.
909	Application	Selecting "Inhibit all warning messages" does not disable advanced warnings.
		UTF-8 Input character code (-utf8 option) and output character code (-outcode=utf8) are being set in dialogs but not being passed to the compiler at build time. These codes can only be applied in conjunction with C99 option, but even when selected, still does not work.
919	Application	
936	Application	Duplicate Address is allowed in Linker->Section for GNURX and other targets.
		Linker section editor user interface needs improvement for CCRX. Unable to add section without selecting existing section & UI does not indicate this. As a result unable to add section before start of current sections without convoluted process rearranging sections after creating new section This also seems to be an issue with the GNU section editor.
939	Application	
		Debugging on the E2S(1.0.0.36) using 'F5' (step into) does not work as expected when stepping into disassembly (mixed mode). The button 'F5' has the same response as F6 (step over).
940	Application	
971	Application	Source file icon decoration for per-file build settings is missing from the project explorer view.

1008	Application	In the linker user options, there is: -rom=D=R,D_1=R_1,D_2=R_2 This option needs to be modified (to add sections). Modifying this line appears to work, but once changes are applied the new line is in place, but also a second line with the original contents are still in place.
1065	Application	Build console arrows (Next and previous) does not work as expected. On selecting 'Next' arrow, the listed errors are not scanned/visited through.
1107	Application	If you remove all the sections under Project->Properties->C/C++ Build->Settings->Sections, then apply the settings, close the properties dialog then re-open the sections section, causes an exception.
1111	Application	Force HW Breakpoints does not work for the V850E JTag.
530	Debug Configuration	"In the debug configurations, when clicking the 'Debugger' tab (e.g. from the 'Start-up' tab), in my system it takes 4-5 seconds until the tab comes up during which the window is in an 'in-between' state."
617	Debug Configuration	V850: Options in Debugger configuration > debugger tab are not saved when user clicks apply button of Debugger configuration.
663	Debug Configuration	When changing the project in the debug configurations tab - a dialogue appears asking if changes want to be saved regardless of whether changes have actually occurred.
698	Debug Configuration	In the debug configuration for RX E1 the debug configuration dialog is not remembering the voltage choice of 5V.
873	Debug Configuration	No Renesas GDB hardware launch shortcut for IAR & Green Hills plugins. Launch shortcut needs manual creation.
877	Debug Configuration	IOView is populated for the incorrect target for debug-only projects. If you open the debug configuration dialog the IOView is populated with the correct target information.
1103	Debug Configuration	The V850E JTag Break Option - 'stop emulation of peripherals when stopping' has not been implemented in the debugger options.
478	Event points plugin	Clicking on column headers in Eventpoints view does not order entries.
480	Event points plugin	Unable to add eventpoints using the insert key.
481	Event points plugin	Clicking on OK of the Trace Configuration dialog does not download changes to the device. Expected Result Clicking on the OK button should commit all of the changes made in the dialog back into the main events points list, the updates will then be downloaded to the device if connected. In reality, the eventpoints are added to the main eventpoint list in the Eventpoints view but do not appear to get downloaded to the device.
482	Event points plugin	Browse (...) remaining disabled on Eventpoints view. Open the Eventpoints view. Double click on the Event Break eventpoint category. Select OR in the Trigger combo box. Click Add on the Edit Trace dialog. Click on the ... button alongside the Address text control. A dialog should appear with a list of address labels but the ... button remains disabled
723	Event points plugin	The "Add..." button is greyed out when trying to add a "Before PC" in the Eventpoint window.
804	Event points plugin	Can only be added from the source code windows.
874	Event points plugin	Long should be removed from the size combo for Data Settings for RL78.
934	Event points plugin	Execution Address Eventpoints with trigger count do not work with Breakpoints on Segger RX. Setting an execution address eventpoint with a trigger count on Segger JLink RX62N is not possible if any breakpoints exist, including the default at main. If an execution address eventpoint with a trigger count is set with a breakpoint both the eventpoint & the breakpoint do not function. Multiple breakpoints are set then only 1 does not work. Additional eventpoints function as normal.
322	GDB	Eventpoints view toolbar label not updating for RL78 eventpoints.
471	GDB	Initial debug view is at incorrect address. Caused by an erroneous PC register value.
220	GDB server	All 16 bit registers on the RL78 display 20 bits, the only such register in CubeSuite? is 'PC'. e2-server-gdb executable currently causes a security alert in Windows when executed for the first time. The publisher is currently undefined also. Accepting the dialog allows normal operation to proceed.
373	GDB server	e2studio does not support debugging using multiple E1 emulators connected to the system. There is no way to select which emulator you would like to connect to.
398	GDB server	FMtool for Romless devices not implemented. In the debugger settings in HEW you choose a mot file and address which then gets downloaded during the connection process. This is not implemented in e2studio.
525	GDB server	When Move to Line is used with RX targets the program is resumed from the selected line, the expected behaviour is that the program would remain suspended.
540	GDB server	When the refresh interval is <120 msecs the Realtime views are not updating. First observed in Realtime Expressions, but will probably affect Chart and Memory too. Increasing the refresh interval to 200 msecs is a workaround.

		RL78 program execution not stopping for OA eventpoints set between ranges. 1. Create an Event break OA eventpoint 2. Enter an address in the address field 2. Select Range in the address conditions 3. Enter an end address 4. Eventpoint doesn't trigger when an address between the range specified is reached and program execution doesn't stop
801	GDB server	
802	GDB server	RL78 program execution stopping on word access when byte access is specified.
803	GDB server	RL78 program execution stopping on 'Equal' when 'Not Equal' is specified in the Comapre Settings.
811	GDB server	Trigger Count not supported for RL78 but is still available in the Eventpoint View.
816	GDB server	Data Access mask not working for address values for RL78. Program execution stops each time the address is accessed no matter what value it contains.
820	GDB server	Address mask not working for RL78. Program execution does not stop, expecting to see program execution stopping everytime we access an address ending in e8.
930	GDB server	Unlimited number of Event Break eventpoints allowed on RL78 devices
935	GDB server	RL78 G14-2 only allows one Event Break eventpoint
938	GDB server	Program Execution not stopping for Event Break OA eventpoints using IECube with RL78.
1081	GDB server	Trace is taking up to one minute to return in IECube and sometimes timing out This is only noticable on the IECube target where the trace buffer is full with 65536 records
1131	GDB server	"Add Watchpoint" from Variables window context menu crashes the debugger.
475	GDB server EXEC	Once a debug session has been terminated when using an IECUBE another connection is not possible until the IECUBE had been unplugged from the machine.
1087	GDB server EXEC	When debugging a V850E using Serial you are unable to manually suspend the program once running, unless interrupts have been enabled by the program [e.g. using asm("ei")].
1100	GDB server EXEC	Downloading a program to a V850E, even one with no code other than the default after project generation, can take a long time. During connect this time is generally less than 30 seconds but reload normally takes more than 1.5 minutes.
1110	GDB server EXEC	Removing unneeded interrupt handlers from the vector table reduces the time taken.
1129	GDB server EXEC	Breakpoints on V850E JTAG are unreliable. For example if a breakpoint is set in a loop the breakpoint will be hit a few times and then on click resume the program will run until paused even though the breakpoint should have been hit.
392	GDB server FFW	When using a brand new RX62N RDK with the Segger J-link if the board is brand new you cannot connect to the device the first time. The second time if you use the debug button on the debug configuration page and press debug instead it works correctly.
762	GDB server FFW	GDB server takes a long time to terminate when previous debug session used real-time update. Tested using RX63N and E1.
17	IO view plugin	There are some IO Registers where the same memory address holds 2 registers with difference access sizes. These registers are general a read-only register and another register used for writing which is write-only. These registers are currently all listed as R/W in the IO Map file and so the view will attempt to display values for the wrote-only registers. When it does this the bytes are displayed reversed.
72	IO view plugin	All IO registers for RX devices are listed as Read/Write? in the IO xml files used by the IO view, even though some are read or write only.
419	Project Generation	When using the project generators some settings are not remembered correctly when moving forward in the wizard and then stepping back. The 'CPU Type' information is not saved, while some of the additional options are remembered and some not.
822	Project Generation	org.eclipse.cdt.ui is delayed due to common utilities instantiated. Toolchain validation holds up the loading of org.eclipse.cdt.UI which the IAR plugin depends upon. If this is delayed the IAR plugin will not start up causing the editor to fail with exceptions. Registering toolchains and then restarting should remedy the problem.
903	Project Generation	Unable to create build configuration from an existing configuration.
1088	Project Generation	When using hardware debug on V850 global variables are not initialized correctly. All variables are initialized using the first 4 bytes of data, in addition this 4 bytes is incorrect.
854	Real-time Chart	All realtime views will accept an interval on no less than 100 milliseconds.
567	Real-time Memory	It is not possible to edit series name in the real-time chart view.
1154	Real-time Memory	When debugging for the second time using RL78 the Renesas Real-time Memory view will report back question marks for the memory locations. a workaround would be to use the Eclipse Memory view which is updated on suspending the debugger.
831	Real-time Watch	Record sometimes saves blank file. When using the record feature in the real-time expressions view the saved file is sometimes empty.

1124	Real-time Watch	On adding an expression to the expressions view for the first time you may get a null pointer exception. On pressing "Add new expression" again you will be able to add an expression.
1150	Real-time Watch	When using the RL78 family (with limited realtime monitoring) there is no notification to the user that all available memory has been used in the Expressions View
1132	Real-time Watch	Using a windows 7 machine and verified on another. RL78 expressions do not update in real-time. On two XP machines they update correctly.
1122	Real-time Watch	With realtime enabled, the program suspended, modified source code causing a reloaded project and the program resuming the GDB server can crash.
608	RX build plugin	Message is displayed every time 'Restore default' is pressed. Go to Library generator -> Settings. Select Restore defaults. Following message is displayed: "Please note that reserving registers for use by the fast interrupt is incompatible with pre-built system libraries".
783	RX build plugin	-nofpu option for RX200 is not passed when switched from RX600 to RX200.
842	RX build plugin	Summary of issues with RXC Section editor: Cannot set section to address of 0, this sets to follow on from previous. Clearing address should set to follow on from previous Unable to add section without selecting existing section & UI does not indicate this. As a result unable to add section before start of current sections without convoluted process rearranging sections after creating new section. This also seems to be an issue with the GNU section editor. When opening or importing any RXC project created prior to version 1.0.0.38 the sections will need to be corrected before building.
301	Trace plugin	Trace buffer full functionality needs addition. New checkbox needs adding to the GUI.
436	Trace plugin	Trace view buttons are active even when a debug connection is not available. The buttons should be disabled.
452	Trace plugin	Trace view - save and load trace data. When trace data is saved the save dialog defaults to .xml extension rather than .rtt. This means that the saved data is not loaded back into the view. Also the load dialog defaults to .xml, but does not load the trace data back into the trace view regardless of the file type. Illegal trace files are not flagged as non standard trace files as per requirements.
722	Trace plugin	Using Find on "Address" allows the entry of a case insensitive hex number. However on "Destination Address" a case sensitive string is required. This needs to be made clearer on the UI.
785	Trace plugin	Bus mode records sometimes fail to update if rapid cycling through the available trace modes.
789	Trace plugin	The trace plugin data field if find & filter is set does not remember its value. When reopened the data option has both fields populated with a numerical number not entered by the user.
879	Trace plugin	Find and filter are greyed out after closing trace view.
887	Trace plugin	Trace address filter end range value gets set to the start range after reopening dialog.