# e<sup>2</sup> studio 3.0 Installing into Existing Eclipse Environment

### Introduction

Renesas  $e^2$  studio can be installed as a set of plugins into an existing Eclipse environment. This guide details the process for installing these plugins and the required Eclipse environment. It also details the procedure for updating  $e^2$  studio plugins already installed into an Eclipse environment.

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## 1. Requirements

### 1.1 Eclipse

 $e^2$  studio 3.0 has been developed for use with Eclipse 4.3.1. While installation into later versions of Eclipse may be possible, full functionality cannot be guaranteed. This installation procedure has been tested in Eclipse 4.3.1 & 4.3.2.

There are known issues using  $e^2$  studio plugins in 64 bit versions of Eclipse. On 64 bit operating systems use of the 32 bit version of Eclipse is recommended.

### 1.1.1 CDT

 $e^2$  studio 3.0 uses a modified version of CDT 8.3 which includes additional features and bug-fixes not included in the standard CDT 8.3 release. Use of this CDT is a requirement for using  $e^2$  studio plugins. This CDT is available from the  $e^2$  studio Update Site and will be installed along with the  $e^2$  studio plugins. The full SDK for the modified CDT, including full source code, is available from the  $e^2$  studio Update Site.

If you already have CDT installed & encounter errors during installation it may be necessary to manually update to the  $e^2$  studio version before installation, please see section 5.1 for instructions.

### 1.2 Code Generation Feature

The Code Generation feature of  $e^2$  studio 3.0 requires .Net Framework 4. It is recommended that you do not select the Code Generation feature unless .Net Framework 4 or 4.5 is installed.

**Important:** Installing the Code Generation feature requires Administrative privileges. If you have User Account Control enabled, or are using a non-administrative account, you will be prompted for permissions as part of the installation process.

### 2. Installation Methods

Renesas  $e^2$  studio plugins are available either as an internet accessible Eclipse Update Site or as a set of downloadable archive update sites.

### 3. Installation Procedure



1. Go to Help -> Install New Software...



2. Click the "Add" button to add the e<sup>2</sup> studio Update Sites You will need to add the following sites:

Name	Location
e <sup>2</sup> studio 3 Update Site	http://tool-support.renesas.com/e2studio/e2studio3/
e <sup>2</sup> studio 3 CDT Update Site	http://tool-support.renesas.com/e2studio/e2studio3/cdt/
(Required only if CDT already installed)	

3. Enter the e<sup>2</sup> studio Update Sites Details

) Add Re	epository	×
Name:	e2 studio 3 Update Site	:al
Location:	http://tool-support.renesas.com/e2studio/e2studio3/	ive
?	OK	cel

4. Click OK

# 3.2 Installing e<sup>2</sup> studio Plugins

- 1. Open Install New Software
- **2.** Select the  $e^2$  studio Update Site
- 3. Select the Renesas Plugins you wish to install

Available S	offware			
	items that you wish to in	stall.		() <b>)</b>
Work with:	e2 studio 3 Update Site	- http://tool-support.ren	vesas.com/e2studio/e2studio3/	• Add
		Fir	ed more software by working with the	e " <u>Available Software Sites</u> " preference
type filter te	st			
Name			Version	
	Ind Party DT Optional Features DT Required Collaboration Remass Code Generation Remass Red Code Generation Remass R480 Family Sup Remass R480 Family Sup Remass R4 Family Supp Remass R4 Family Supp Remass SR4 Analysis Fe Amess State Analysis Fe Janeteonized	ges çe pport port rt rt		
Select Al	I Deselect All	104 items selected		
Details A tool to co	nvert Renesas CCRX proj	ects to GNURX projects.		Men
Group iter	y the latest versions of av ms by category y software applicable to i Il update sites during ins		☑ Hide items that are alread What is <u>already installed</u> ? are	y installed

Select "Group items by category". Not doing so can result in e<sup>2</sup> studio branding being installed into your Eclipse environment.

Installing  $e^2$  studio plugins may require the installation of additional plugins from the Eclipse Update Site, for example EMF. To allow this please ensure "Contact all update sites during install" is checked.

It is recommended that you select all categories except CDT Optional Features. However if you wish to install support only for a device family simply select the appropriate Support category.

#### 4. Click Next

#### 5. Check Install Details

Verify that the following plugins are not included

- "Add-on Function for p2" org.eclipse.equinox.p2.extras.feature.feature.group
- "e2 studio" com.renesas.product

#### 6. Click Next and Accept the License Agreements

I accept the terms of the license agreements

I do not accept the terms of the license agreements

### 7. Click Finish then wait for installation process to complete

Install Details		
${iggsymbol{\mathfrak{D}}}$ Your original request has been modified. See the details.		(B)==
Name	Version	ld
Babel Language Pack for datatools in Japanese (92.14%)	4.3.0.v20131123020001	org.eclipse.babel.nls
Babel Language Pack for eclipse in Japanese (93.9%)	4.3.0.v20131123020001	org.eclipse.babel.nls
Babel Language Pack for modeling.emf in Japanese (64.49%)	4.3.0.v20131123020001	org.eclipse.babel.nls
Babel Language Pack for mylyn in Japanese (89.49%)	4.3.0.v20131123020001	org.eclipse.babel.nls
Babel Language Pack for technology.subversive in Japanese (86.59)		org.eclipse.babel.nls
Babel Language Pack for tools.cdt in Japanese (81.93%)	4.3.0.v20131123020001	org.eclipse.babel.nls
Q3 C/C++ Common GDB Support	8.3.0.201403251534	org.eclipse.cdt.gdb.f
C/C++ Development Platform	8.3.0.201403251534	org.eclipse.cdt.platfi
C/C++ Development Tools	8.3.0.201403251534	org.eclipse.cdt.featu
C/C++ DSF GDB Debugger Integration	8.3.0.201403251534	org.eclipse.cdt.gnu.c
C/C++ GDB Hardware Debugging	8.3.0.201403251534	org.eclipse.cdt.debu
C/C++ GNU Toolchain Build Support	8.3.0.201403251534	org.eclipse.cdt.gnu.l
C/C++ GNU Toolchain Debug Support	8.3.0.201403251534	org.eclipse.cdt.gnu.r
C/C++ Memory View Enhancements	8.3.0.201403251534	org.eclipse.cdt.debu
Debugger Services Framework Communication	1.0.1.201404170922	com.micrium.plugir
3 Direct JLink	1.0.1.201404170922	com.micrium.plugir
Easy Shell Feature	1.4.1	com.tetrade.eclipse.
Eclipse GitHub integration with task focused interface	3.2.0.201312181205-r	org.eclipse.mylyn.gi
b Stephen End End End End End End End End End En	2.9.2.v20140203-1126	org.eclipse.emf.feati
EMF Code Generation	2.9.0.v20140203-1126	org.eclipse.emf.code
B EMF Code Generation UI	2.7.0.v20140203-1126	org.eclipse.emf.code
B EMF Common UI	2.8.0.v20140203-1126	org.eclipse.emf.com
See EMF Data Binding	1.3.0.v20140203-1126	org.eclipse.emf.data
EMF Ecore Code Generator	2.9.1.v20140203-1126	org.eclipse.emf.code
ize: Unknown		
Details		
Eclipse C/C++ development platform. Contains no toolchain integrations.	Included in C/C++ Development	st Tools.
		Mon

### 8. Restart when prompted

🖨 Softw	vare Updates	×
?	You will need to restart Eclipse SDK for the restart now?	changes to take effect. Would you like to
		Yes No

9. Wait while e<sup>2</sup> studio Installation is completed & Restart again



You can enable notification of future updates in Preferences -> Install/Update -> Automatic Updates.

### 4. Updating from previous versions

Updating from a previous version of  $e^2$  studio plugins is not supported between major versions (e.g.  $2.x \rightarrow 3.x$ ).

#### 5. **Resolving Dependency Problems**

Due to the nature of the Eclipse Platform you may encounter errors when installing  $e^2$  studio plugins due to conflicting dependencies. Workarounds for common dependency problems are listed below.

#### 5.1 CDT

- 1. Add the  $e^2$  studio CDT Update Sites using the instructions in section 3.1.
- 2. Go to Window -> Preferences
- 3. Select Install/Update -> Available Software Sites Disable all Update Sites except e<sup>2</sup> studio CDT Update Site 22

type filter text	Available Software Sites			\$ • \$ • •	
<ul> <li>Grenal</li> <li>Ant</li> <li>Help</li> <li>Intal/Update</li> <li>Automatic Updates</li> <li>Anala</li> <li>Plug-in Cereforment</li> <li>Run/Debug</li> <li>Team</li> </ul>	type filter text Name A churdo CDT Update Site Q churdo CDT Update Site Q churdo Update Site Q Q Churdo Package Repository Q The Eclipse Project Updates	Location http://cloaisupport.nensa.com/ http://cloaisupport.nensa.com/ http://cloaisuport.nensa.com/ http://download.eclipse.org/tech http://download.eclipse.org/teclip	e2studio/ nology/epp/packages/ju ises/juno	Add Edit Remove Reload Disable Import Export	
Go to Help -:	Apply the chang > Check For Up )T plugins and (	dates	,	Cancel	
Available Updates Check the updates the	at you wish to install.				ę
Name V & Autotools supp V & C/C++ Develop V & C/C++ GCC V & C/C++ GCC V & C/C++ GBC Ha V & C/C++ Memor V & C/C++ Memor V & C/C++ unit Te V & C/C++ Unit Te V & CDT Visual C++	pment Tools pment Tools SDK ross Compiler Support ardware Debugging y View Enhancements Launch sting Support	Version 3.0.1.2013071 8.1.2.2013071 1.1.0.2013071 7.0.0.2013071 2.2.0.2013071 6.0.0.2013071 1.0.0.2013071 1.0.0.2013071	181744         org.ecli           181744         org.ecli	ipse.cdt.autotools: ipse.cdt.feature.gr ipse.cdt.sdk.featur ipse.cdt.build.cross ipse.cdt.debug.gdl ipse.cdt.debug.ui. ipse.cdt.debug.ui. ipse.cdt.testsrunne ipse.cdt.testsrunne	oup e.group sgcc.featu bjtag.featu memory.fe mote.featu er.feature.fr
Select All D	eselect Ali				
(?)		< Back	Next >	Finish	Car

7. Review and the Click Next

Jpdate Details Review and confirm the updates.				
Name	Version	Id		
Autotools support for CDT	3.0.1.201307181744	org.eclipse.cdt.autotools.feature.group		
	8.1.2.201307181744	org.eclipse.cdt.feature.group		
b R C/C++ Development Tools SDK	8.1.2.201307181744	org.eclipse.cdt.sdk.feature.group		
C/C++ GCC Cross Compiler Support	1.1.0.201307181744	org.eclipse.cdt.build.crossgcc.feature.group		
🚯 C/C++ GDB Hardware Debugging	7.0.0.201307181744	org.eclipse.cdt.debug.gdbjtag.feature.gro		
C/C++ Memory View Enhancements	2.2.0.201307181744	org.eclipse.cdt.debug.ui.memory.feature		
🚯 C/C++ Remote Launch	6.0.0.201307181744	org.eclipse.cdt.launch.remote.feature.group		
🚯 C/C++ Unit Testing Support	7.0.0.201307181744	org.eclipse.cdt.testsrunner.feature.feature		
CDT Visual C++ Support	1.0.0.201307181744	org.eclipse.cdt.msw.feature.group		
ize: 58,697 KB Details		ţ		
(?)	< Back Ne	xt > Finish Cancel		

- 8. Accept the License Agreements & Click Finish
  - I accept the terms of the license agreements

I do not accept the terms of the license agreements

- 9. Wait for the Installation Process to Finish then Restart
- 10. Repeat Steps 3 & 4 but enable any updates sites you disabled

### 6. Known Issues

Below is a list of issues which specifically effect usage after installing into an Eclipse environment. For a full list of known issues in  $e^2$  studio 3.0 please see the main release notes.

### ID Description

3804 Code Generator not fully installed if it is added after installation of other e<sup>2</sup> studio plugins.

If installing the Code Generation Feature after installing other e<sup>2</sup> studio plugins you may need to manually register the COM service before Code Generation becomes available during Project Generation.

To do this create a new CCRX, GNURX or GNURL78 project, then select "New Code Generator" from the toolbar.



3884	HEW Project Converter does not function in a 64-bit Eclipse Environment
3888	Code Generator does not function in a 64-bit Eclipse Environment
3899	Emulator Selection does not function in a 64-bit Eclipse Environment
-	Issues may be encountered if any part the Eclipse or Project path contains spaces.