e^2 studio 2.2

Installing into Existing Eclipse Environment

Introduction

Renesas e² 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.

Contents

1.   Requirements

1.1   Eclipse

e² studio 2.2 has been developed for use with Eclipse 3.8.2. While installation into later versions of Eclipse may be possible, full functionality cannot be guaranteed.

This installation procedure has been tested in Eclipse 3.8.2 & 4.2.2. While installing into Eclipse 4.2 is possible, e² studio has not been fully tested in this environment and issues may be encountered.

There are known issues using e² 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

e² studio 2.1 uses a modified version of CDT 8.2.1 which includes additional features and bug-fixes not included in the standard CDT 8.2.1 release. Use of this CDT is a requirement for using e² studio plugins. This CDT is available from the e² studio Update Site and will be installed along with the e² studio plugins. The full SDK for the modified CDT, including full source code, is available from the e² studio Update Site.

If you already have CDT installed it may be necessary to manually update to the e² studio version before installation, please see section 5.1 for instructions. This is required if the CDT SDK is installed.

1.2   Code Generation Feature

The Code Generation feature of e² studio 2.2 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.
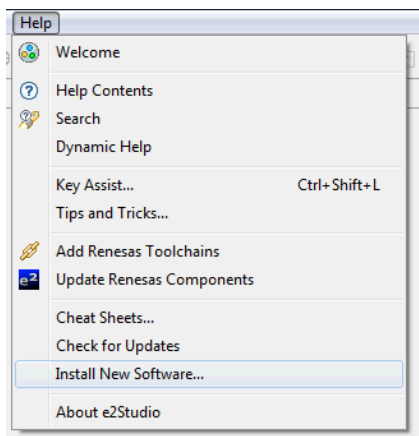
2.   Installation Methods

Renesas e² studio plugins are available either as an internet accessible Eclipse Update Site or as a set of downloadable archive update sites.

3.   Installation Procedure
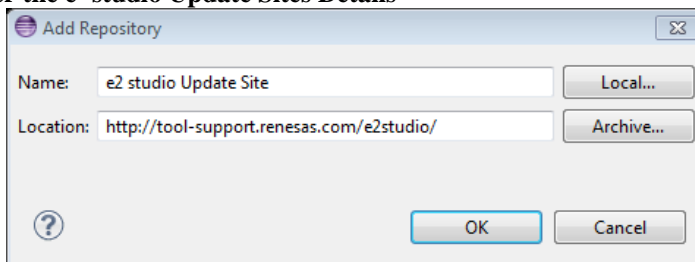
3.1   Adding e^2 studio Update Sites

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

2.   **Click the "Add" button to add the e^2 studio Update Sites**
     You will need to add the following sites:

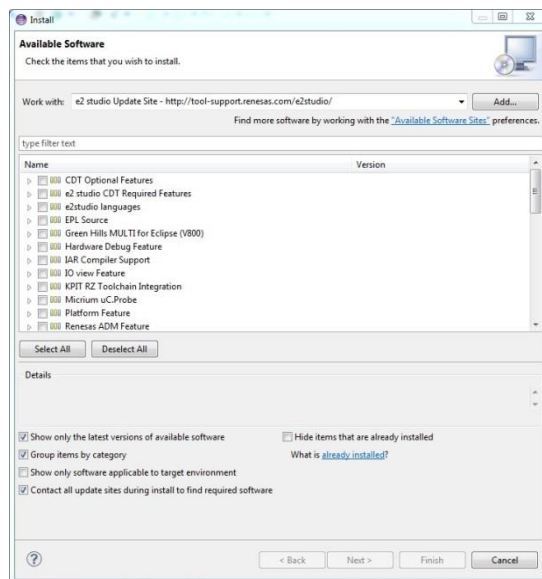| Name	Location
e^2 studio Update Site	http://tool-support.renesas.com/e2studio/
e^2 studio CDT Update Site (Required only if CDT already installed)	http://tool-support.renesas.com/e2studio/e2studio2/cdt/

3.   **Enter the e^2 studio Update Sites Details**

4.   **Click OK**

3.2   Installing e² studio Plugins

1. Open Install New Software
2. Select the e² studio Update Site
3. Select the Renesas Plugins you wish to install

Select "Group items by category". Not doing so can result in e² studio branding being installed into your Eclipse environment.

Installing e² 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.

You must select the following Features. To install all e² studio features select all categories except "CDT Optional Features".
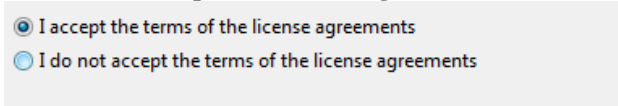
Category	Feature
e² studio CDT Required Features	C/C++ Development Tools
	C/C++ GDB Hardware Debugging
	C/C++ Memory View Enhancements
	CDT Common GDB Support
Renesas Core Feature	Renesas Core Feature
Renesas Core Model Feature	Renesas Core Model Feature

4. **Click Next**
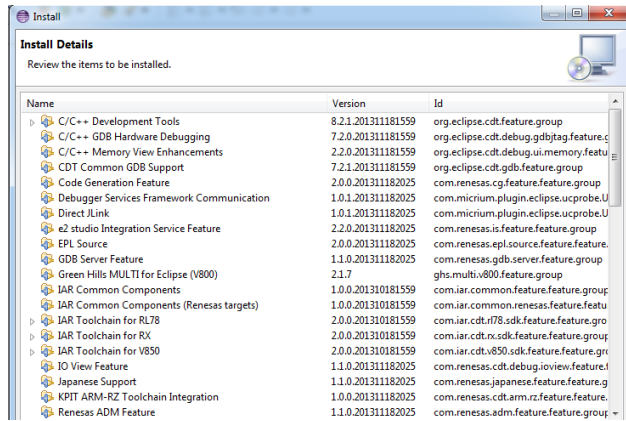5. **Check Install Details**

   Verify that the following plugins are not included

   - "Add-on Function for p2" – org.eclipse.equinox.p2.extras.feature.feature.group
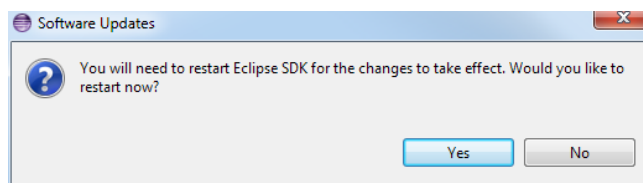   - "e2studio" – com.renesas.product

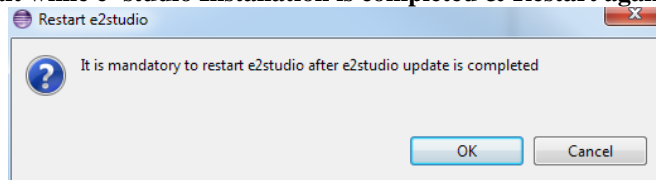6. **Click Next and Accept the License Agreements**

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

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8. **Restart when prompted**

9. **Wait while e² 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 supported for versions 2.0 SR2 (2.0.2) – 2.2.

1. **Go to Help -> Check For Updates**
2. **Select all e^2 studio plugins**
3. **Continue though the wizard and restart when prompted**
4. **Allow the support files update to take place then restart**
5. **Install new e^2 studio features using the instructions in 3.2**

To install all new e^2 studio features click Select All then unselect CDT Optional Features.

It is recommended that you add the following features:

Category	Feature
Renesas RX Common Features	RX Common Feature
Support Tools Features	RX EZCUBE Support
	RX Simulator Support
	SH E10A Support
RL78 - Debug Support	RL78 Common Feature
Renesas e2 Solution Toolkit	Renesas Smart Manual

Install the following for RZ Support:

Category	Feature
Segger GDB	Segger GDB Hardware Debug Core Feature
RZ JLink	RZ J-Link GDB Hardware Debug Feature
KPIT RZ Toolchain Integration	KPIT ARM-RZ Toolchain Integration

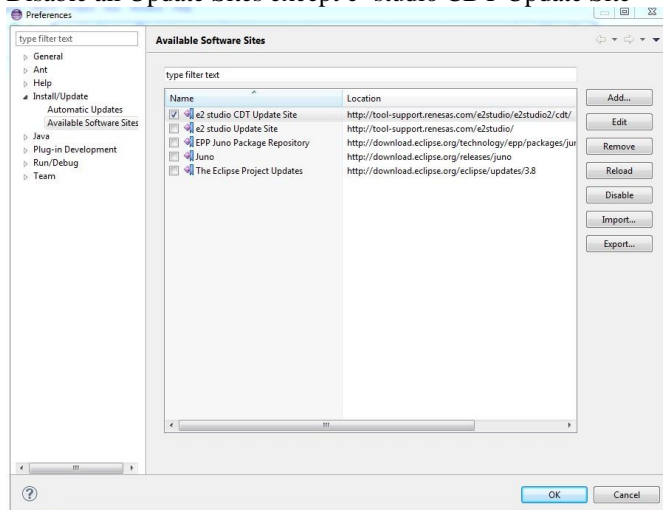Install the following for Code Generation Support (See 1.2 before installing):

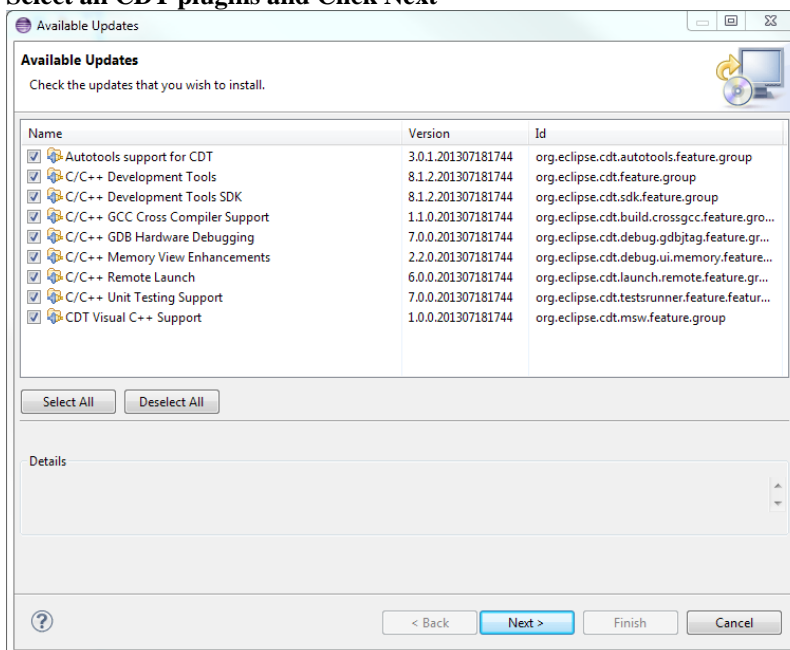| Category	Feature
Renesas Code Generation Feature	Code Generation Feature

5.   Resolving Dependency Problems

Due to the nature of the Eclipse Platform you may encounter errors when installing e² studio plugins due to conflicting dependencies. Workarounds for common dependency problems are listed below.
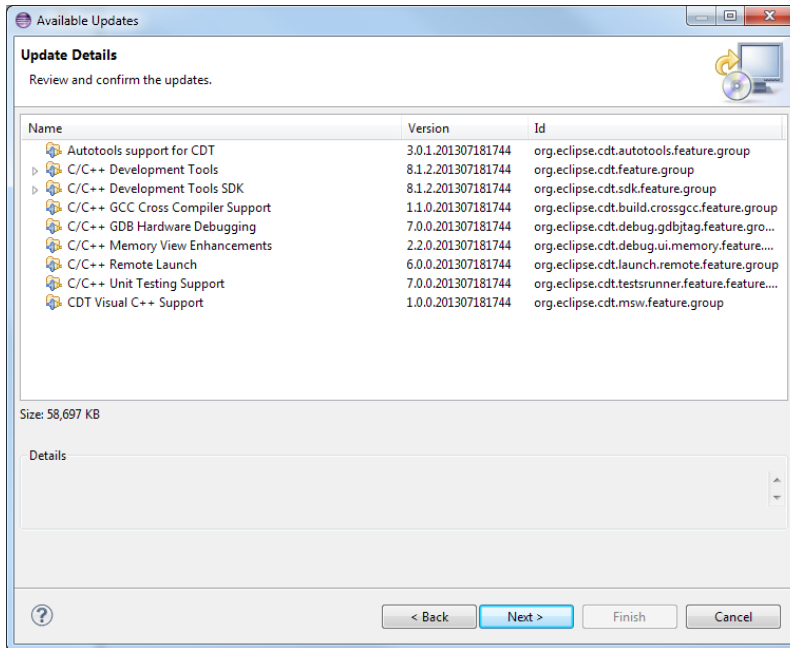
5.1   CDT

6. **Add the e² studio CDT Update Sites using the instructions in section 3.1.**
7. **Go to Window -> Preferences**
8. **Select Install/Update -> Available Software Sites**
    Disable all Update Sites except e² studio CDT Update Site

9. **Click OK to Apply the changes**
10. **Go to Help -> Check For Updates**
11. **Select all CDT plugins and Click Next**

12. **Review and the Click Next**
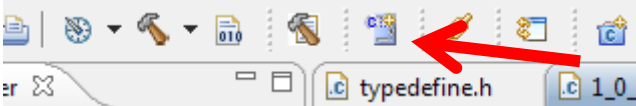
13. **Accept the License Agreements & Click Finish**

14. **Wait for the Installation Process to Finish then Restart**
15. **Repeat Steps 3 & 4 but enable any updates sites you disabled**

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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 2.2 please see the main release notes.

ID	Description
3804	Code Generator not fully installed if it is added after installation of other e^2 studio plugins.

If installing the Code Generation Feature after installing other e^2 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.

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