

Synergy Standalone Configurator (SSC) v7.5.1

Release Note

Renesas Synergy™ Platform
Synergy Tools & Kits
Synergy Standalone Configurator (SSC)

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Renesas Synergy™ Platform

Synergy Standalone Configurator (SSC) v7.5.1**Introduction**

This document provides release notes for the Synergy™ Standalone Configurator (SSC) 7.5.1. This version of the SSC supports IAR Embedded Workbench® for Renesas Synergy™ v8.23.3 and the Synergy Software Package (SSP) software, executing on S7G2, S5D9, S5D5, S5D3, S3A7, S3A6, S3A3, S3A1, S128, S124, and S1JA MCU Groups.

The Synergy Standalone Configurator (SSC) is an Eclipse Rich Client Platform (RCP) application that contains the Renesas Synergy Project Generator and the Renesas Synergy Project Editor as implemented in the Renesas e² studio ISDE (Integrated Solution Development Environment), including configurators like the Clock Configurator, Pin Configurator, RTOS Configurator, and SSP Module Selector/Configurator.

Only Renesas Synergy users who would like to use the IAR Embedded Workbench (IAR EW) for Synergy need to download and install the SSC.

Since the functionality of the SSC is identical to the Renesas Synergy Project Generator and the Renesas Synergy Project Editor as implemented in the Renesas e² studio ISDE, refer to the ISDE Usage Notes in the *SSP User's Manual* for information on how to use it.

Release information

SSC Release Version	7.5.1
Supported IAR EW for Synergy version	v8.23.3.18530
Supported Operating Systems	Microsoft® Windows® 7 and Microsoft® Windows® 10

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1. Installing SSC v7.5.1

1.1 Using the Synergy Platform Installer

The easiest way to install SSC v7.5.1 along with SSP and IAR EW for Synergy is to use the associated Synergy Platform Installer.

Go to the page www.renesas.com/synergy/ssp and download the Synergy Platform Installer by clicking the **Download Platform Installer** button and selecting the option **IAR**. Unzip it, then double-click the installer and follow the directions on the screen.

Unzip it, then double-click the installer and follow the directions on the screen.

The Synergy Platform Installers allow users to either do a **Quick** or a **Custom** installation.

The quick installation option installs all the mandatory components with no user input required, while the custom installation option provides options to the user to select the optional components that they would like to install along with the mandatory components.

The following components will be installed with the Synergy Platform Installer with IAR EW/SSC:

- Renesas Synergy Software Package (SSP) (mandatory component)
- Synergy Standalone Configurator (SSC) v7.5.1 (mandatory component)
- IAR EW for Synergy v8.23.3 (optional, but recommended component)
- IAR compiler (included in Embedded Workbench)
- Express Logic GUIX Studio™ v 5.4.2.9 (optional component)
- Express Logic TraceX® v5.2.0 (optional component)

After the installation is complete, run IAR EW for Synergy to get started with Renesas Synergy.

1.2 Using the Individual SSC Installer

Important: Only Renesas Synergy users who would like to use the IAR Embedded Workbench for Renesas Synergy as their development environment need to download and install the SSC.

To install SSC v7.5.1 individually (without SSP/IAR EW for Synergy), download the individual SSC v7.5.1 installer (.zip) from the Synergy Gallery from www.renesas.com/synergy/ssc. Unzip it, then double-click the installer and follow the directions on the screen.

To use the SSC and the SSP (Synergy Software Package) together with IAR EW for Synergy, follow these steps:

1. Download SSC v7.5.1 from www.renesas.com/synergy/ssc, unzip it, and double-click the executable. The default installation directory is C:\Renesas\Synergy\SSC_v7_5_1.
2. Download and install SSP from www.renesas.com/synergy/ssp. During the installation, you will be prompted to specify an installation directory for the SSP. Point the SSP installer to the directory where you just installed the SSC (for example C:\Renesas\Synergy\SSC_v75_1).
3. After you install the SSP, your SSP Evaluation License will be located in the following directory:
<SSC_base_dir>\internal\projectgen\arm\Licenses\
4. Download and install IAR EW for Synergy v8.23.3 from www.renesas.com/synergy/ewsynergy. Follow the *IAR EW for Synergy Getting Started Guide* to create your first Synergy project.

2. Synergy Hardware Platform Support

MCU Groups supported: S7G2, S5D9, S5D5, S5D3, S3A7, S3A6, S3A3, S3A1, S128, S124, and S1JA.

3. Known Issues in Release v7.5.1

3.1 'Multiple definition' Linker errors when using both Library and Source for Express Logic components

By default, libraries are added to a project when adding an Express Logic X-Ware™ component (for example, 'ux' for USBX™). You also have the option to add the source code for an X-Ware™ module to the project (for example, 'ux_src' for USBX™).

Projects using both the source and the library may experience 'multiple definition' Linker errors during build.

To make you aware of this, the SSC displays an error marker after adding source code for an X-Ware™ module to your project:

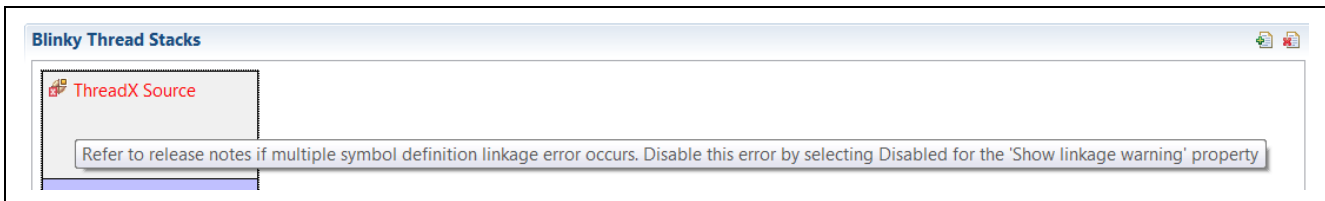


Figure 1. Linker error prompt

If your project builds fine after adding the source (that is, you do not get those linker errors), you can turn off the error marker in the **Properties** for the source module by using the following steps:

1. In the SSC, click on the X-Ware source module in the **Threads** tab.
2. Go to the **Properties** view.
3. Scroll all the way down to the bottom of the properties.
4. Set the **Show linkage warning** property to **Disabled**.

If you do encounter these linker errors, perform the following steps to resolve them:

1. In the IAR project, navigate to the location of the library for which you also included source code. For example, in the case of USBX™, the location is
Synergy/Source Files/synergy/ssp/src/framework/el/ux/cm4_iar/libux.a.
2. Right-click on the library file (in this example, libux.a) and select **Options**.
3. Tick the box that says **Exclude from build**.
4. Rebuild your project. The build errors related to multiple definitions should be gone.

3.2 SSP Pack 'Template' files are regenerated when deleted

Files marked as 'Template' files in an SSP pack can be modified by the user without the file being overwritten/re-extracted from the pack on generating the project content/rebuilding the project. However, if you delete the file, then it will be regenerated unexpectedly.

3.3 Missing 'Save' button

SSC v7.5.1 does not provide a **Save** button to save changes to the Synergy project configuration.

Click **Ctrl-S** to save the Synergy Configuration or close the SSC and click **Yes** in the **Save Resource** dialog to save your changes.

Website and Support

Visit the following vanity URLs to learn about key elements of the Synergy Platform, download components and related documentation, and get support.

Synergy Software	www.renesas.com/synergy/software
Synergy Software Package	www.renesas.com/synergy/ssp
Software add-ons	www.renesas.com/synergy/addons
Software glossary	www.renesas.com/synergy/softwareglossary
Development tools	www.renesas.com/synergy/tools
Synergy Hardware	www.renesas.com/synergy/hardware
Microcontrollers	www.renesas.com/synergy/mcus
MCU glossary	www.renesas.com/synergy/mcuglossary
Parametric search	www.renesas.com/synergy/parametric
Kits	www.renesas.com/synergy/kits
Synergy Solutions Gallery	www.renesas.com/synergy/solutionsgallery
Partner projects	www.renesas.com/synergy/partnerprojects
Application projects	www.renesas.com/synergy/applicationprojects
Self-service support resources:	
Documentation	www.renesas.com/synergy/docs
Knowledgebase	www.renesas.com/synergy/knowledgebase
Forums	www.renesas.com/synergy/forum
Training	www.renesas.com/synergy/training
Videos	www.renesas.com/synergy/videos
Chat and web ticket	www.renesas.com/synergy/resourcelibrary

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Aug.27.19	-	Initial release
1.01	Sep.10.19	-	Second release

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