

# MSC8156EVM Software Installation Guide

## SYSTEM REQUIREMENTS

<b>Hardware</b>	Intel® Pentium® 4 processor, 2 GHz 2 GB RAM
<b>Operating System</b>	Microsoft® Windows Vista® (SP2), Home Basic, Home Premium, Business, Enterprise or Ultimate edition (32 or 64 bit) or Windows® XP Professional (SP3), Home or Professional edition (32 or 64 bit)
<b>Free Disk Space</b>	1.9 GB, plus space for projects

This document explains how to:

- Obtain the install wizard for CodeWarrior Development Studio for StarCore DSPs v10.1.5.
- Use the wizard to install this CodeWarrior product.
- Install the MSC8156EVM service pack.
- Update the SmartDSP OS MSC8156EVM Library Patch.
- Extend the software evaluation period.

## Section A: Obtaining the SC 10.1.5 Install Wizard

1. Log into [freescale.com](http://freescale.com).

a. Start a web browser.

Alternatively, click the URL below.

b. Go to this URL: [www.codewarrior.com](http://www.codewarrior.com).

The **CodeWarrior Development Tools** page of [freescale.com](http://freescale.com) appears.

c. Click the [Login](#) link at the top of this page.

### Login Link



The **Log-in** page appears.

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**NOTE** If you are not a registered member of [freescale.com](http://freescale.com), click **Register Now** and follow the on-screen instructions to register. You must be a registered member before you can download evaluation copies of software.

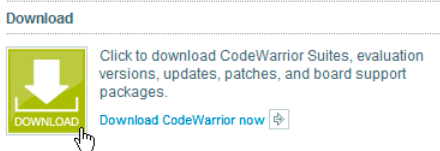
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- d. In the upper text box of the **Existing Members** area, enter your user ID (usually your email address).
- e. In the lower text box, enter your password.
- f. Click **Log in**.  
You are logged in and your **My Freescale** page appears.

2. Download the install wizard to your PC.

- a. From the menu bar at the top of the page, select **Products > CodeWarrior Development Tools**.  
The **CodeWarrior Development Tools** page appears.
- b. Click the **Download** button in the center of this page.

### Download Button



The **CodeWarrior Downloads** page appears.

- c. Click the [Download Evaluation Versions](#) link (on the left side of the page).  
The **Evaluation Software** page appears.
- d. In the table in the center of this page, click this link:  
[Evaluation: CodeWarrior for StarCore 10.1.5](#).  
The **Software Download Agreement** page appears.
- e. Please read this agreement.
- f. Click **I Accept**.  
The **File Download** dialog box appears.
- g. Click **Save**.  
The **Save As** dialog box appears.
- h. Use this dialog box to select the directory on your PC in which to save the install wizard.

- i. Click **Save**.  
Download of the install wizard (`CW_SC_v10.1.5_b131.exe`) begins.  
The licensing system sends you an email explaining how to extend the product evaluation period.
- j. When the **Download Complete** dialog box appears, click **Close**.  
The install wizard is now in the specified directory of your PC.

## Section B: Installing the Software

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### NOTE      **CodeWarrior installation restrictions on Microsoft Windows Vista and Microsoft Windows 7.**

Administrator rights are required to install Eclipse-based CodeWarrior software on Windows Vista and Windows 7 systems, since the installer copies files into the `System` and `Program Files` folders.

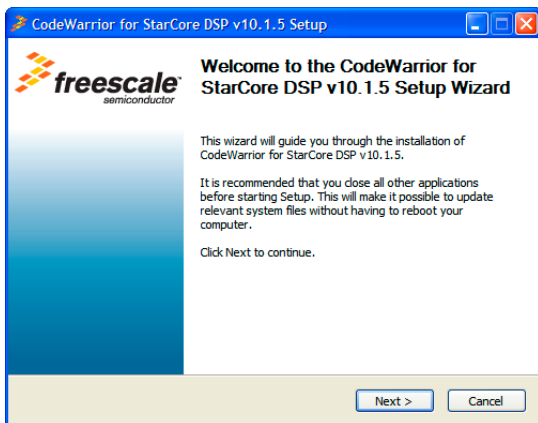
The default CodeWarrior installation folder is `C:\Program Files\Freescale\CW SC v10.1`. To protect against malware, Windows Vista and Windows 7 do not allow normal processes to change files in the `Program Files` folder; therefore, you must have administrator rights to install and run CodeWarrior software to this location. If you intend to run this software with a non-administrative user account, you must install the software in another folder (for example, in `C:\Freescale\CW SC v10.1`).

In addition, your project workspace must be created in a folder to which you have full access rights.

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1. Install CodeWarrior Development Studio for StarCore DSPs v10.1.5.
  - a. Start Windows Explorer.
  - b. Navigate to the directory in which you saved the install wizard (`CW_SC_v10.1.5_b131.exe`).
  - c. Double-click on this file name.  
The **Open File — Security Warning** dialog box appears.
  - d. Click **Run**.  
The first page of the install wizard appears.

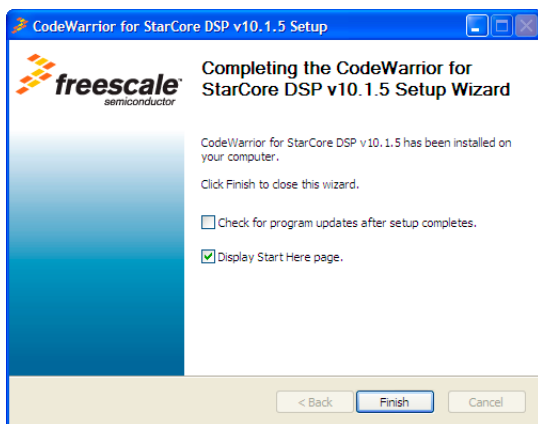
## Install Wizard—First Page



- e. Follow the wizard's on-screen instructions to install the CodeWarrior software

When installation completes, the wizard's last page appears.

## Install Wizard—Last Page



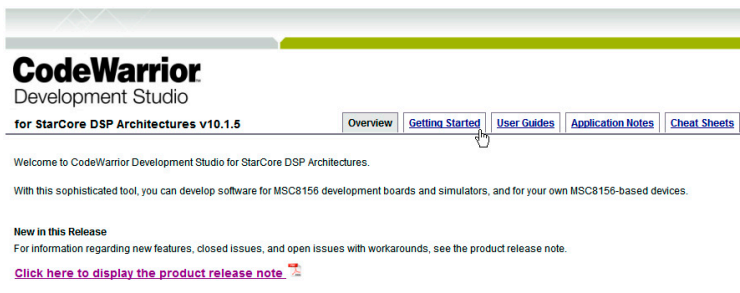
- f. Uncheck the **Check for program updates after setup completes** box.
- g. Check the **Display Start Here page** box.

- h. Click **Finish**.

The wizard closes.

A browser starts and displays the **CodeWarrior Documentation Overview** page. This page contains tabs that group the CodeWarrior documentation into categories.

## CodeWarrior Documentation Overview Page



2. Browse the CodeWarrior documentation.
- Click any tab in the **CodeWarrior Documentation Overview** page.  
A page appears that lists and briefly describes each document in the chosen category.
  - To read a document listed in the selected page, click the document's link.
  - When finished, exit the browser.  
You have successfully installed CodeWarrior Development Studio for StarCore DSPs v10.1.5.

## Section C: Installing the MSC8156EVM Service Pack

1. Add the software site that hosts the MSC8156EVM service pack to your preferences.
- From the Start menu, select **Start > Programs > Freescale CodeWarrior > CW for StarCore v10.1.5 > CodeWarrior**.  
The **Workspace Launcher** dialog box appears.
  - Click **OK**.  
The IDE displays its workbench window.

**NOTE** If the **Welcome** view appears on top of the workbench window, click the **x** in the tab at the top-left of this view to close it.

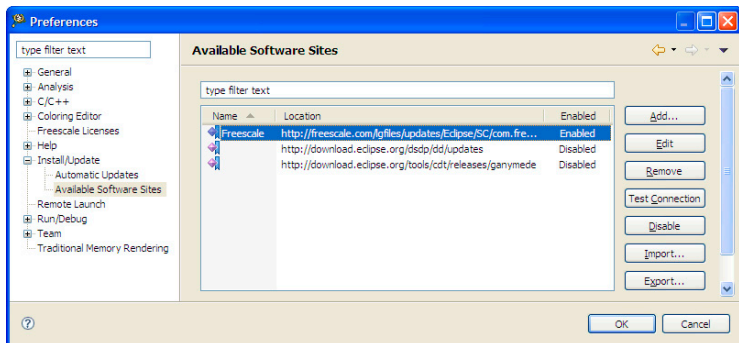
- c. From the IDE menu bar, select **Window > Preferences**.

The **Preferences** dialog box appears.

- d. From the tree control on the left of this dialog box, select **Install/Update > Available Software Sites**.

The **Available Software Sites** preference panel appears on the right side of the **Preferences** dialog box.

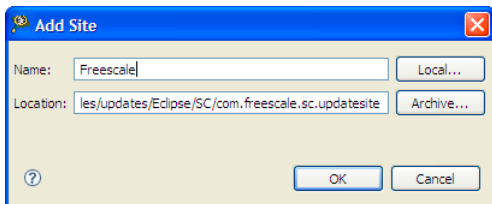
### Available Software Sites Preference Panel



- e. Click **Add**.

The **Add Site** dialog box appears.

### Add Site Dialog Box



- f. In the **Name** text box, enter Freescal.

- g. In the **Location** text box, enter (or copy-and-paste) this URL:  
`http://freescal.com/lfiles/updates/Eclipse/SC/com.freescal.sc.update site`

- h. Click **OK**.

The **Add Site** dialog box closes and the specified software site is added to the software sites list box.

- i. In this list box, select the site just added.

- j. Click **Test Connection**.

The connection between the IDE and the selected software site is tested and a message box stating the results appears.

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**NOTE** If this message box says the Freescale software site is *not* available, please contact Freescale support.

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- k. Click **OK**.

The message box closes.

- l. Click **OK**.

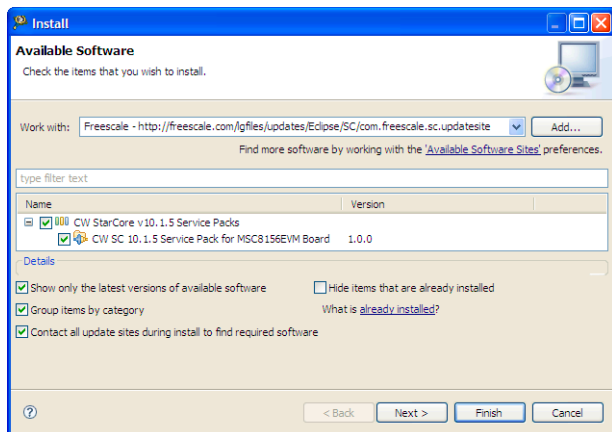
The **Preferences** dialog box closes.

2. Install the MSC8156EVM service pack.

- a. From the IDE menu bar, select **Help > Install New Software**.

The **Available Software** page of the install wizard appears.

### Available Software Page



- b. From the **Work with** dropdown menu, select the Freescale software site set up previously.

The list of software available on the Freescale software site appears in the list box below the dropdown menu.

- c. Check the **Group items by category** box.

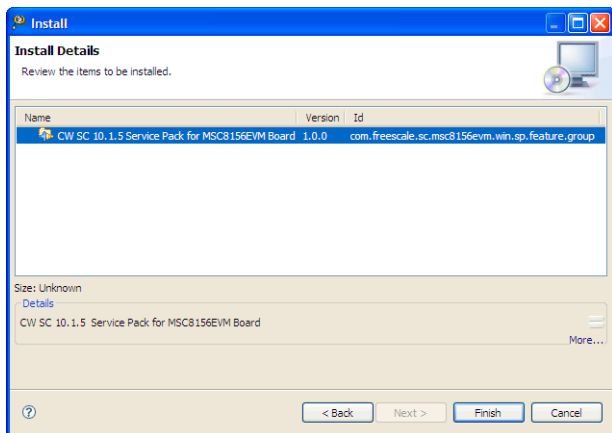
The list box organizes the available software by category.

- d. In the **CW StarCore v10.1.5 Service Pack** category, check the **CW SC 10.1.5 Service Pack for MSC8156EVM Board** box.

- e. Click **Next**.

The **Install Details** page of the install wizard appears.

### Install Details Page



- f. From the list box, select the item named  
CW SC 10.1.5 Service Pack for MSC8156EVM Board.

- g. Click **Finish**.

The **Install** dialog box appears and displays the progress of the software installation.

- h. When the **Security Warning** dialog box appears, click **OK**.

The installation continues. When installation completes, a dialog box prompting you to restart the CodeWarrior IDE appears.

- i. Click **Yes**.

The IDE closes and redisplay the **Workspace Launcher** dialog box.

- j. Click **OK**.

The IDE displays the workbench window.

You have successfully installed the MSC8156EVM service pack.

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**NOTE** For users who plan to use SmartDSP OS with the MSC8156EVM board, please follow the instructions in section D to update the SmartDSP OS part of the service pack.

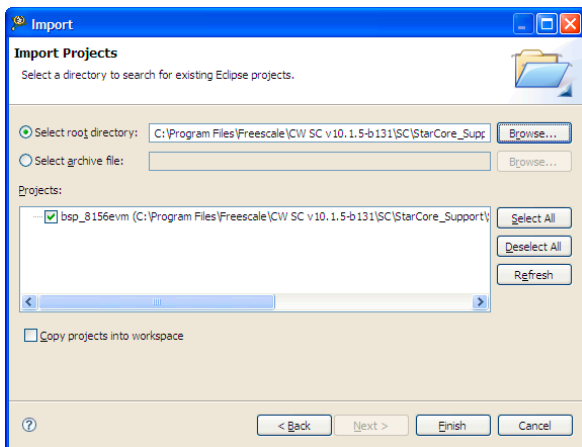
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## Section D: Updating the SmartDSP OS MSC8156EVM Library Patch

1. Start the CodeWarrior IDE.
  - a. From the Start menu, select **Start > Programs > Freescale CodeWarrior > CW for StarCore v10.1.5 > CodeWarrior**.  
The **Workspace Launcher** dialog box appears.
  - b. Click **OK**.  
The IDE displays its workbench window.
2. Import the SmartDSP OS MSC8156EVM support project.
  - a. Select **File > Import**.  
The **Import** dialog box appears.
  - b. In this dialog box, expand the **General** group.
  - c. From this group, select Existing Projects into Workspace.
  - d. Click **Next**.  
The **Import Projects** page appears.
  - e. In this page, choose **Select root directory**.
  - f. Click **Browse**.  
The **Browse for Folder** dialog box appears.
  - g. Use this dialog box to navigate to this folder:  
`installDir\SC\StarCore_Support\  
SmartDSP\Demos\starcore\msc815x\evm_support`  
where *installDir* stands for the path in which you installed CodeWarrior Development Studio for StarCore DSPs v10.1.5.
  - h. Click **OK**.  
The dialog box closes, and the bsp\_8156evm project appears in the list box in the center of the **Import Projects** wizard page.

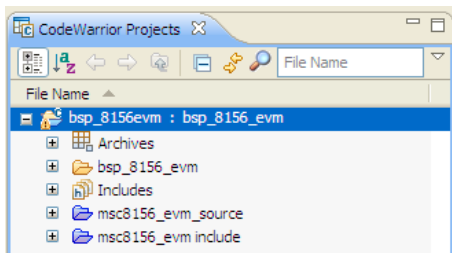
## Import Wizard—Import Projects Page



- i. Click **Finish**.

The bsp\_8156evm project is imported into your workspace and appears in the **CodeWarrior Projects** view.

### CodeWarrior Projects View—bsp\_8156evm Project

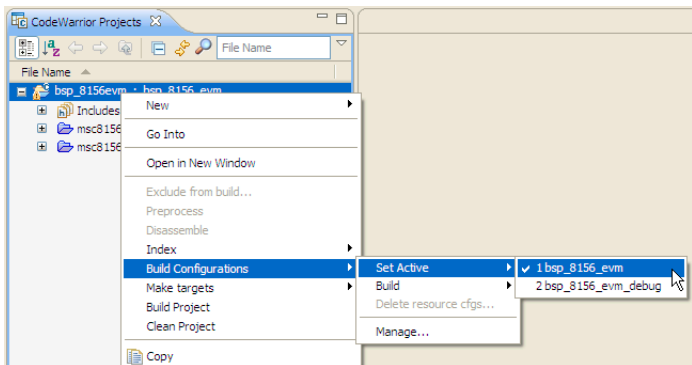


3. Build the SmartDSP OS MSC8156EVM support project.

- a. In the **CodeWarrior Projects** view, right-click on the bsp\_8156evm project.
- b. From the context menu that appears, select **Build Configurations > Set Active > bsp\_8156\_evm**.

The bsp\_8156\_evm build configuration becomes the project's active build configuration.

## Context Menu: Build Configurations > Set Active



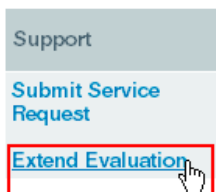
- c. Again, right-click on the bsp\_8156evm project.
  - d. From the context menu that appears, select **Project > Clean**.  
All project build problems and build states are discarded.
  - e. Again, right-click on the bsp\_8156evm project.
  - f. From the context menu that appears, select **Build Project**.  
The project builds according to settings in the bsp\_8156\_evm build configuration.
  - g. Again, right-click on the bsp\_8156evm project.
  - h. From the context menu that appears, select **Build Configurations > Set Active > bsp\_8156\_evm\_debug**.  
The bsp\_8156\_evm\_debug build configuration becomes the project's active build configuration.
  - i. Again, right-click on the bsp\_8156evm project.
  - j. From the context menu that appears, select **Project > Clean**.  
All project build problems and build states are discarded.
  - k. Again, right-click on the bsp\_8156evm project.
  - l. From the context menu that appears, select **Build Project**.  
The project builds according to settings in the bsp\_8156\_evm\_debug build configuration.
- You have successfully built SmartDSP OS for the MSC8156EVM board.

## Section E: Extending the Product Evaluation Period

After 60 days, your evaluation license expires. You can extend this license up to two times. To extend your evaluation license, follow these steps:

1. Log into `freescale.com`.
  - a. Start a web browser. Alternatively, click the URL below.
  - b. Go to this URL: [www.codewarrior.com](http://www.codewarrior.com).  
The **CodeWarrior Development Tools** page of `freescale.com` appears.
  - c. Click the [Login](#) link at the top of this page.  
The **Log-in** page appears.
  - d. In the upper text box of the **Existing Members** area, enter your user ID (usually your email address).
  - e. In the lower text box, enter your password.
  - f. Click **Log in**.  
You are logged in and your **My Freescale** page appears.
2. Obtain a new evaluation license.
  - a. Click the [CodeWarrior Licensing](#) link (on the bottom-right of the page).  
A page displaying a list of the CodeWarrior products you have registered or are evaluating appears.
  - b. In the **Downloaded Evaluations** section of this page, find the row with the text [Evaluation: CodeWarrior for StarCore 10.1.5](#) in the Description column.
  - c. In this row, click the [Extend Evaluation](#) link.

### Extend Evaluation Link



The **Manage License** page appears.

- d. Follow the on-screen instructions to obtain and install a new evaluation license.

You have now extended the product evaluation period.

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