# CodeWarrior™ Development Tools

# mwSourceSafe Plug-in User Guide

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## How to Contact Metrowerks



| | |
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# Table of Contents

# 1

# Overview

This chapter provides an overview of the Metrowerks Visual SourceSafe plug-in for the CodeWarrior™ integrated development environment (IDE). This tool is commonly called the mwSourceSafe plug-in.

This chapter contains these topics:



## About the mwSourceSafe Plug-in

The mwSourceSafe plug-in is a tool that makes working with CodeWarrior projects that are under the control of the Microsoft Visual SourceSafe source code control system more convenient. How?

The plug-in lets you:

- Execute common Visual SourceSafe commands on a CodeWarrior project from within the CodeWarrior IDE.
- See the SourceSafe status of each file in a project (and of the project file itself) from within the IDE.

In short, the plug-in is a time saver because its lets you use Visual SourceSafe without leaving the CodeWarrior IDE. Without the plug-in, you must run a separate program (typically, Visual SourceSafe Explorer) in order to use SourceSafe.

## System Requirements

To use the mwSourceSafe plug-in, your computer, operating system, and software must meet the requirements listed in Table 1.1.

**Table 1.1 System Requirements for the mwSourceSafe Plug-in**

| Component | Requirement |
|---|---|
| Computer | IBM-compatible PC |
| Processor | Pentium-class processor |
| Memory | 128 MB, minimum |
| Operating system | Windows 98, Windows ME, Windows NT, Windows 2000, or Windows XP |
| Microsoft Visual SourceSafe | Version 5.0 or later |
| CodeWarrior IDE | Version 4.x or later (Windows-hosted version only) |

# Learning More About Visual SourceSafe

The *mwSourceSafe Plug-in User Guide* (this document) explains how to use the features of the plug-in. It does not cover source code control concepts or document the Visual SourceSafe product. For information of this type, refer to the Visual SourceSafe documentation.

# 2

# Setting Up the mwSourceSafe Plug-in

This chapter explains how to obtain, install, activate, configure, and deactivate the mwSourceSafe plug-in.

The chapter contains these topics:



## Obtaining the mwSourceSafe Plug-in

The Metrowerks mwSourceSafe plug-in is free. This section explains how to obtain the latest version of this software.

**NOTE** Some CodeWarrior products ship with the mwSourceSafe plug-in. Others do not. You already have the plug-in if the file `mwSourceSafe.dll` is in this directory:

*`{CodeWarriorInstallDir}`*`\Bin\Plugins\version control`

where *`{CodeWarriorInstallDir}`* is a placeholder for the path to the directory in which you installed your CodeWarrior product.

If you already have the plug-in, you do not need to perform the procedure in this section. That said, if an updated version of the plug-in is posted on the Metrowerks website, you can use this procedure to get the new version.

To obtain the latest mwSourceSafe plug-in, follow these steps:

1. If the CodeWarrior IDE is running, exit the program.
2. Go to the Metrowerks version control tool download page by clicking this URL (or by typing it into your Internet browser):

   http://www.metrowerks.com/MW/Develop/Desktop/VersionControl.htm

   Your Internet browser starts and displays the Metrowerks version control tool download page.
3. In the Windows section of this page, click the name of the `.zip` file that contains the mwSourceSafe plug-in.
4. Use the file download capabilities of your browser to obtain a local copy of the mwSourceSafe plug-in's `.zip` file.
5. Quit the Internet browser.

You now have the `.zip` file that contains the latest version of the mwSourceSafe plug-in.

# Installing the mwSourceSafe Plug-in

This section explains how to install the mwSourceSafe plug-in.

**NOTE** If your CodeWarrior product includes the mwSourceSafe plug-in, your product's installation program automatically installs the plug-in.

Use the procedure in this section to install the mwSourceSafe plug-in after you have downloaded it from the Metrowerks website.

To install the mwSourceSafe plug-in, follow these steps:

1. Create a temporary directory on your hard disk. Name it anything you want.
2. Go to the directory in which you downloaded the plug-in's `.zip` file.

3 Double-click the name of the `.zip` file.

WinZip (or another archive decompression program) runs and displays the contents of the mwSourceSafe plug-in's `.zip` file.

4 Extract the contents of the `.zip` file. Place them in the temporary directory.

The decompression program creates these subdirectories in the temporary directory:

- `Bin`
- `Release Notes`
- `Documentation`

**NOTE** At the time of this writing, the installation steps that follow were correct. Before executing these steps, however, please check the release notes for changes to the installation procedure.

The release notes file is named `mwSourceSafe_Release_Notes.txt`. It is in this directory:

*{YourTempDir}*`\Release Notes\VCS Notes\`

5 Copy the file `pmwSourceSafe.dll`

from the directory:

*{YourTempDir}*`\Bin\Plugins\PreferencePanel\`

to the directory:

*{CodeWarriorInstallDir}*`\Bin\Plugins\Preference Panel\`

where *{YourTempDir}* is a placeholder for the directory to which you extracted the mwSourceSafe plug-in distribution file and *{CodeWarriorInstallDir}* is a placeholder for the directory in which you installed your CodeWarrior product.

6 Copy the file `mwSourceSafe.dll`

from the directory:

*{YourTempDir}*`\Bin\Plugins\version control\`

to the directory:

*{CodeWarriorInstallDir}*`\Bin\Plugins\version control\`

7 Copy the file `mwSourceSafe_Release_Notes.txt`

from the directory:

*{YourTempDir}*`\Release Notes\VCS Notes\`

to the directory:

*{CodeWarriorInstallDir}*`\Release Notes\`
`Version Control Notes\`

8 Copy the file `mwSourceSafe_UG.pdf`

from the directory:

*{YourTempDir}*`\Documentation\`

to the directory:

*{CodeWarriorInstallDir}*`\CodeWarrior Manuals\PDF`

9 Copy the file `mwSourceSafe_UG.chm`

from the directory:

*{YourTempDir}*`\Documentation\`

to the directory:

*{CodeWarriorInstallDir}*`\CodeWarrior Manuals\HTML`

10 Create this directory:

*{CodeWarriorInstallDir}*`\CodeWarrior Manuals\`
`Code Examples\mwSourceSafe Plug-in User Guide\`

11 Copy the directory `mwss_tutorial_db`

from the directory:

*{YourTempDir}*`\Documentation\`

to the directory:

*{CodeWarriorInstallDir}*`\CodeWarrior Manuals\`
`Code Examples\mwSourceSafe Plug-in User Guide\`

12 Delete the temporary directory.

The mwSourceSafe plug-in is now installed.

**NOTE** Please read the release notes before using the mwSourceSafe plug-in. The name of the release notes file is `mwSourceSafe_Release_Notes.txt`

# Activating the mwSourceSafe Plug-in

Before you can use the mwSourceSafe plug-in, you must first activate and configure it. To do this, you must make entries in the VCS Setup settings panel and the SourceSafe settings panel.

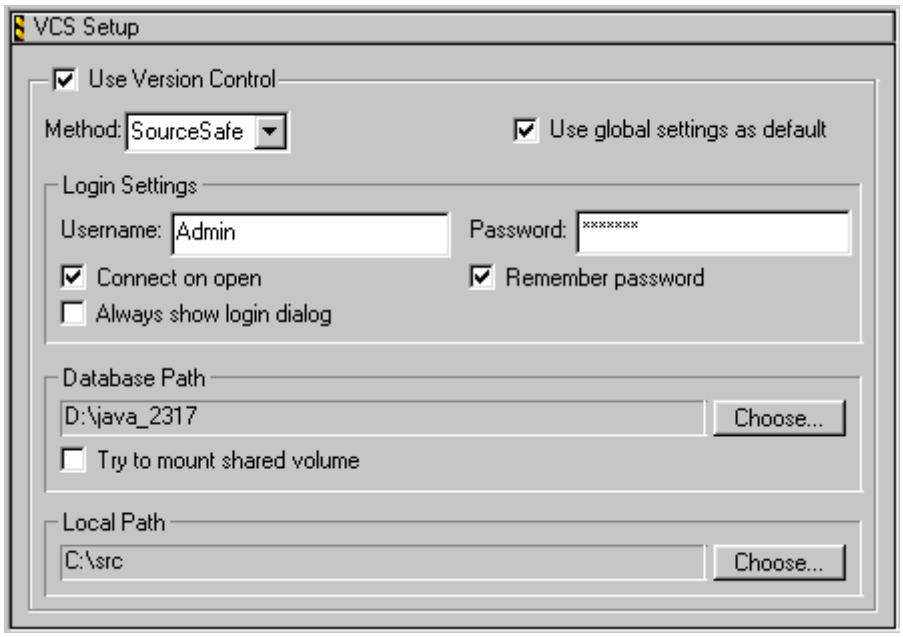
Figure 2.1 show the VCS Setup settings panel. Table 2.1 lists each component in this panel and explains the purpose and effect of each.

Figure 2.2 show the SourceSafe settings panel. Table 2.2 lists each component in this panel and explains the purpose and effect of each.

These procedures explain how to activate and configure the mwSourceSafe plug-in:

- Creating a Default mwSourceSafe Plug-in Configuration
- Creating a Project-specific mwSourceSafe Plug-in Configuration

**Figure 2.1 The VCS Setup Settings Panel of the VCS Settings Window**



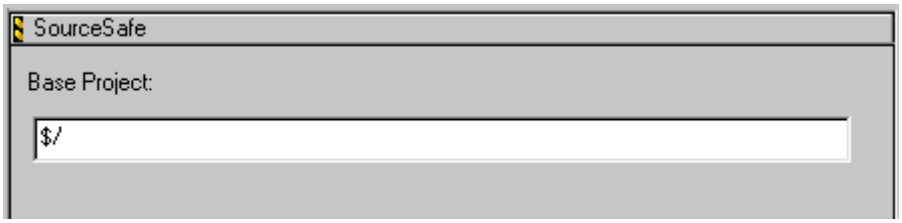
## Table 2.1 VCS Setup Settings Panel: Components

| Panel Component | Description |
|---|---|
| **Use Version Control**<br>check box | Check to instruct the IDE to use a version control system plug-in.<br>Clear to stop the IDE from using a version control system plug-in.<br>**NOTE:** If you are overriding the default plug-in configuration, this item's label is **Use custom project**, not **Use Version Control**. |
| **Method**<br>dropdown menu | Choose the version control system to use.<br>To use the mwSourceSafe plug-in, choose **SourceSafe**. |
| **Use global settings as default**<br>check box | Check to create the default mwSourceSafe plug-in configuration.<br>Clear to deactivate the default plug-in configuration.<br>**NOTE:** This check box is present only if there were no projects open when you displayed the VCS Settings window. |
| **Login Settings**<br>group box | Groups items that pertain to logging into a SourceSafe database. The bulleted items below explain each item in this group.<br>**NOTE:** All of the login settings are optional. |
| • **Username**<br>text field | Enter your SourceSafe user name for the selected SourceSafe database (see **Database Path** below).<br>The SourceSafe administrator can give you your user name.<br>**NOTE:** You can leave this item blank. If you do, you must enter your user name in the database login dialog box each time the plug-in must connect to the selected SourceSafe database. |
| • **Password**<br>text field | Enter the password for the specified user name.<br>The SourceSafe administrator can give you your password.<br>**NOTE:** You can leave this item blank. If you do, you must enter your password in the database login dialog box each time the plug-in must connect to the selected SourceSafe database. |
| • **Remember password**<br>check box | Check if you do not want to enter your password each time the plug-in displays the database login dialog box.<br>Clear if you want to enter your password each time the plug-in displays the database login dialog box.<br>**NOTE:** If you do not check **Remember password**, the value entered in the **Password** field (described above) is discarded. |
| • **Connect on open**<br>check box | Check if you want the plug-in to immediately connect to the specified SourceSafe database when you open a project. In this case, the plug-in does not display the database login dialog box.<br>Clear if you do not want the plug-in to immediately connect to the specified SourceSafe database when you open a project.<br>**NOTE:** You must enter a valid user name/password combination *and* check **Remember password** for the connect on open feature to work. |

## Table 2.1 VCS Setup Settings Panel: Components

| Panel Component | Description |
|---|---|
| • **Always show login dialog** check box | Check if you want the plug-in to display the database login dialog box unconditionally, that is, even if you specified a valid user name/password combination, checked **Remember password**, and checked **Connect on open**. **Always show login dialog** overrides these settings. This feature lets you login to SourceSafe as a different user.<br>Clear if you do no want the plug-in to display the database login dialog box unconditionally. |
| **Database Path** group box | Groups items pertaining to the location of a SourceSafe database. The bulleted items below explain each of these items. |
| • **Choose...** button | Displays the **Select an Access Path** dialog box.<br>Use this dialog box to select the directory that contains the SourceSafe database to use. You can specify an absolute, compiler relative, or system relative path. If a project is open, you can also specify a project relative path.<br>**NOTE:** You must supply a SourceSafe database path. |
| • **Path** text field | Displays the selected SourceSafe database path.<br>This field is read-only. |
| • **Try to mount shared volume** check box | Reserved for future use. Leave unchecked. |
| **Local Path** group box | Groups items that pertain to the plug-in's working directory.<br>The working directory is the directory the plug-in uses to store and retrieve files in response to SourceSafe commands.<br>The bulleted items below explain each of these items. |
| • **Choose...** button | Displays the **Select an Access Path** dialog box.<br>Use this dialog box to select the directory for the plug-in to use as its working directory.<br>You can specify an absolute, compiler relative, or system relative path. Also, if a project is open, you can specify a project relative path.<br>**NOTE:** You must specify a local path. Further, the directory you specify must match the working directory displayed by Visual SourceSafe Explorer for the SourceSafe project you enter in the **Base Project** text field (explained in Table 2.2). |
| • **Path** text field | Displays the selected local path.<br>This field is read-only. |

### Figure 2.2 The SourceSafe Settings Panel of the VCS Settings Window




### Table 2.2 SourceSafe Settings Panel: Components

| Panel Component | Description |
|---|---|
| **Base Project** text field | Enter the name of the base SourceSafe project with which you want the plug-in to work. **NOTE:** You must specify a base project. Further, the name entered must be a valid SourceSafe project name. Run the Visual SourceSafe Explorer to find the SourceSafe project name to enter. |

There are two kinds of plug-in activation:

- Global activation

  To activate the plug-in globally, create a default plug-in configuration.

  If you create a default plug-in configuration, the plug-in is active for all projects subsequently opened in the IDE.

- Project-specific activation

  To activate the plug-in for an individual project, assign a plug-in configuration to just this project. In this case, the plug-in is active only when this project is both open and selected.

The procedures in this section explain how to activate the plug-in both of these ways. These procedures are:

- Creating a Default mwSourceSafe Plug-in Configuration
- Creating a Project-specific mwSourceSafe Plug-in Configuration

## Creating a Default mwSourceSafe Plug-in Configuration

The IDE attempts to use the default mwSourceSafe plug-in configuration for each CodeWarrior project that does not have a custom VCS plug-in configuration.

**NOTE** You do not have to create the default plug-in configuration. Instead, you can create a custom configuration for each of your projects. The default plug-in configuration is just a convenience.

To create the default plug-in configuration, follow these steps:

1. Run Visual SourceSafe Explorer.

   Visual SourceSafe Explorer displays its main window.

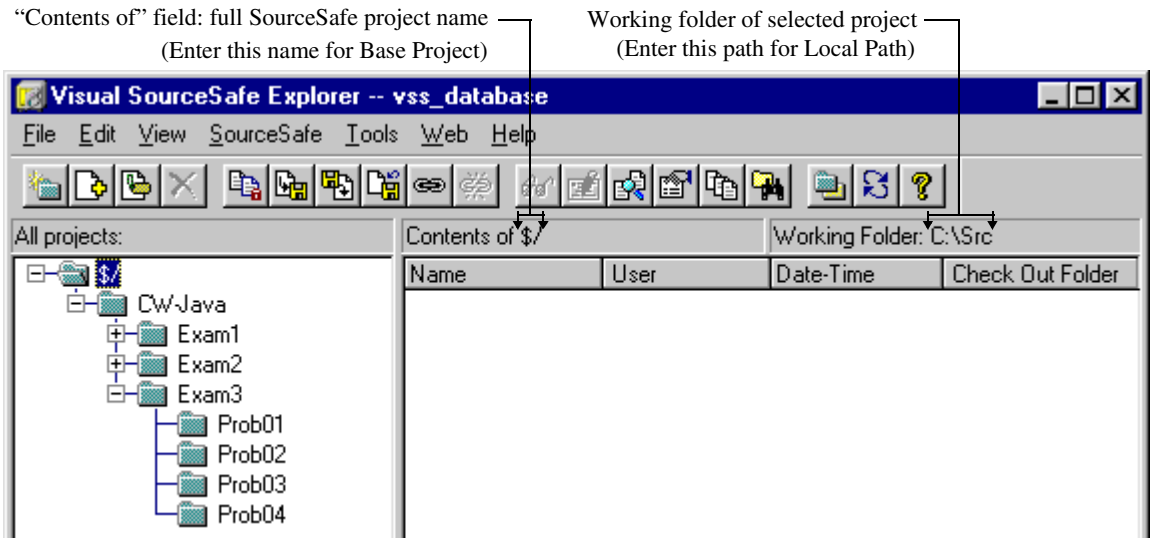
2. In the left pane of Visual SourceSafe Explorer, click the name of the SourceSafe project that you want to make the **Base Project** (explained below) of the default plug-in configuration.

   Visual SourceSafe Explorer displays this project's fully qualified name in its "Contents of" field. See Figure 2.3.

**TIP** Write down the selected project's fully qualified name. You must use it for the plug-in's **Base Project** setting (explained below).

**TIP** To create the most general plug-in configuration, select the root SourceSafe project. This project is named `$/`. It is at the root level of the SourceSafe project tree.

**Figure 2.3 Visual SourceSafe Explorer with the Root Project Selected**



3 Using Visual SourceSafe Explorer, assign a working folder to the SourceSafe project just selected.

**TIP** Write down the absolute path of the specified working folder. You must use it for the plug-in's **Local Path** setting (explained below).

**TIP** To create the most general plug-in configuration, assign a working folder to the root SourceSafe project (`$/`) and let all subprojects inherit this working folder. Such a plug-in configuration works for all subprojects in a SourceSafe database.

4 Quit Visual SourceSafe Explorer.

5 Run the CodeWarrior IDE.

6 Close any open projects.

7 Choose **Edit > Version Control Settings...**

The VCS Settings window appears.

8 Display the VCS Setup settings panel in the VCS Settings window.

To do this, select the item labeled **VCS Setup**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

Figure 2.1 on page 11 shows the VCS Setup panel.

9 Check the **Use Version Control** check box.

10 Select the item labeled SourceSafe from the **Method** dropdown menu.

The IDE enables the rest of the items in the VCS Setup panel.

11 Check **Use global settings as default** check box.

This setting makes the current plug-in configuration the default configuration. The IDE attempts to apply this configuration to all CodeWarrior projects that do not have a custom plug-in configuration.

**NOTE** Because no project is open, the VCS Settings panel includes the **Use global settings as default** check box. If a project is open, this check box is not present.

**12** Optionally, specify default Visual SourceSafe login settings.

**NOTE** None of the login settings is required. Table 2.1 on page 12 explains the purpose and effect of each login setting.

**13** Specify the path to the SourceSafe database to make the default database.

To do this, follow these steps:

**a.** Click the **Choose...** button in the **Database Path** group box.

The **Select an Access Path** dialog box appears.

**b.** Use this dialog box to navigate to the directory that contains the SourceSafe database you want to make the default database.

**c.** Click **OK**

The selected path appears in the read-only field to the left of the **Choose...** button.

**14** Specify the local path to make the default local path.

To do this, follow these steps:

**a.** Click the **Choose...** button in the **Local Path** group box.

The **Select an Access Path** dialog box displays.

**b.** Use this dialog box to navigate to the working folder defined in step **3**.

**NOTE** The directory you specify for local path *must* match the working folder assigned to the SourceSafe project you intend to make the plug-in's **Base Project**. If you select a different local path, the plug-in will not work.

**c.** Click **OK**

The selected path appears in the read-only field to the left of the **Choose...** button.

**15** Display the SourceSafe settings panel in the VCS Settings window.

To do this, select the item labeled **SourceSafe**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

Figure 2.2 on page 14 shows the SourceSafe settings panel.

**16** In the **Base Project** text field, enter the fully qualified SourceSafe project name obtained in step **2**.

**NOTE** The name you enter for **Base Project** *must* match the fully qualified SourceSafe project name obtained in step **2**. If you enter a different name, the plug-in will not work.

**17** Click **OK**

The VCS Settings window closes. The IDE activates the mwSourceSafe plug-in globally and adds the VCS menu to its menu bar.

Refer to "Using the mwSourceSafe Plug-in" on page 25 for instructions that explain how to use each feature of the mwSourceSafe plug-in.

## Creating a Project-specific mwSourceSafe Plug-in Configuration

A project-specific plug-in configuration is one that applies to just the CodeWarrior project that is open and selected when you create the configuration.

To create a project-specific plug-in configuration, follow these steps:

**1** Run Visual SourceSafe Explorer.

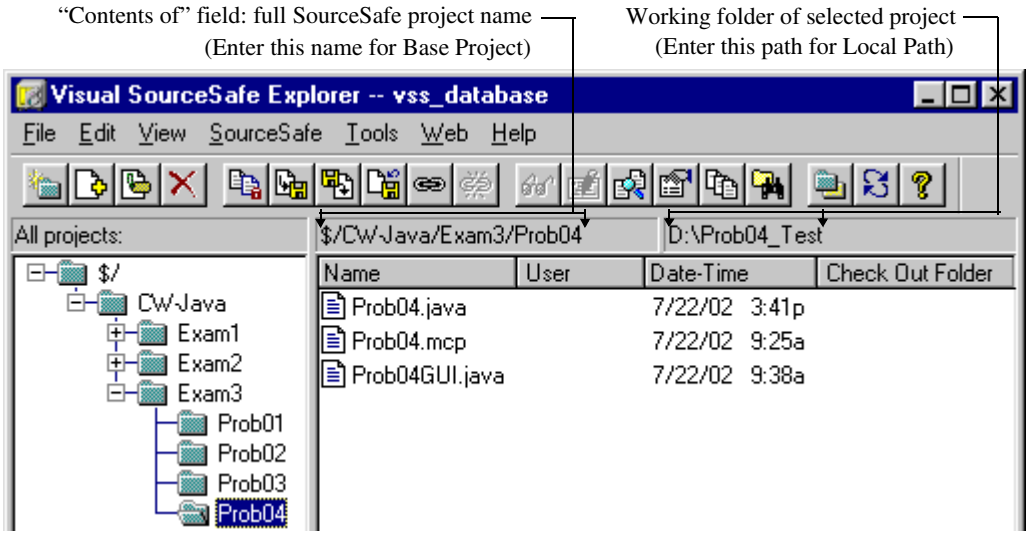
Visual SourceSafe Explorer displays its main window.

**2** In the left pane of the Visual SourceSafe Explorer, select the SourceSafe project that contains the source files of the CodeWarrior project for which you want to create a project-specific plug-in configuration.

Visual SourceSafe Explorer displays the project's fully qualified name in its "Contents of" field and lists the files that belong to the project in its right pane. See Figure 2.4.

**TIP** Write down the selected project's fully qualified name. You must use it for the plug-in's **Base Project** setting (explained below).

**Figure 2.4 Visual SourceSafe Explorer with a "Leaf" Project Selected**




3 Using Visual SourceSafe Explorer, assign a working folder to the selected SourceSafe project.

**TIP** Write down the absolute path of the specified working folder. You must use it for the plug-in's **Local Path** setting (explained below).

4 Using Visual SourceSafe Explorer, get the desired version of the selected project out of SourceSafe.

Visual SourceSafe Explorer creates local copies of the selected project's files in the working folder assigned to the project.

5 Quit Visual SourceSafe Explorer.

6 Run the CodeWarrior IDE.

7 Close any open projects.

8 Open the CodeWarrior project just retrieved from SourceSafe.

**9** Choose **Edit > Version Control Settings...**

The VCS Settings window appears.

**10** Display the VCS Setup settings panel in the VCS Settings window.

To do this, select the item labeled **VCS Setup**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

**NOTE** Because a project is open, the VCS Settings panel does *not* include the **Use global settings as default** check box. This is because the IDE must assign a plug-in configuration to an open project, if there is one.

**11** Check the **Use Version Control** check box.

**NOTE** If the default plug-in configuration has been defined, this check box is labeled **Use custom project** instead of **Use Version Control**. In this case, the new configuration overrides the default plug-in configuration for the open project.

**12** Select the SourceSafe item from the **Method** dropdown menu.

The IDE enables the rest of the items in the VCS Setup panel.

**13** Optionally, specify SourceSafe database login settings for the open project.

**NOTE** None of the login settings is required. Table 2.1 on page 12 explains the purpose of each login setting.

**14** Specify the path to the SourceSafe database that the open project uses.

To do this, follow these steps:

**a.** Click the **Choose...** button in the **Database Path** group box.

The **Select an Access Path** dialog box displays.

**b.** Use this dialog box to navigate to the directory that holds the SourceSafe database that contains the open project.

**c.** Click **OK**

The selected path appears in the read-only text field to the left of the **Choose...** button.

**15** Specify the local path to use for the open project.

To do this, follow these steps:

**a.** Click the **Choose...** button in the **Local Path** group box.

The **Select an Access Path** dialog box displays.

**b.** Use this dialog box to navigate to the working folder defined in step **3**.

**NOTE** The directory you specify for local path *must* match the working folder assigned to the SourceSafe project you intend to make the plug-in's **Base Project**. If you select a different local path, the plug-in will not work.

**c.** Click **OK**

The selected path appears in the read-only text field to the left of the **Choose...** button.

**16** Display the SourceSafe settings panel in the VCS Settings window.

To do this, select the item labeled **SourceSafe**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

Figure 2.2 on page 14 shows the SourceSafe settings panel.

**17** In the **Base Project** text field, enter the fully qualified SourceSafe project name obtained in step **2**.

**NOTE** The name you enter for **Base Project** *must* match the fully qualified SourceSafe project name obtained in step **2**. If you enter a different name, the plug-in will not work.

**18** Click **OK**

The VCS Settings window closes. The IDE activates the mwSourceSafe plug-in for the open project.

**NOTE** The VCS menu appears in the IDE's menu bar when you select a project for which the plug-in has been activated. This menu disappears when you select a project for which the plug-in has not been activated.

Refer to "Using the mwSourceSafe Plug-in" on page 25 for instructions that explain how to use each feature of the mwSourceSafe plug-in.

# Deactivating the mwSourceSafe Plug-in

To deactivate the mwSourceSafe plug-in, follow these steps:

1. Start the CodeWarrior IDE.
2. To deactivate the plug-in configuration for a specific CodeWarrior project, open that project.

   To deactivate the default plug-in configuration, close all projects.
3. Choose **Edit > Version Control Settings...**

   The VCS Settings window appears.
4. Display the VCS Setup settings panel in the VCS Settings window.

   To do this, select the item labeled **VCS Setup**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

   Figure 2.1 on page 11 shows the VCS Settings window with the VCS Setup panel displayed.
5. Select the item labeled None from the **Method** dropdown menu.
6. To deactivate the default plug-in configuration, clear the box labeled **Use global settings as default**.

**NOTE** The VCS Setup panel includes the **Use global settings as default** check box only if no projects are open. If the IDE has one or more projects open, this check box is not present.

7. Clear the **Use Version Control** check box.

   The IDE disables the other the items in the VCS Setup panel.

**NOTE** If a default plug-in configuration exists, this check box is labeled **Use custom project** instead of **Use Version Control**.

**8** Click **OK**

The VCS Settings window closes. The IDE deactivates the plug-in and removes the VCS menu from its menu bar.

**NOTE** If no projects were open when you clicked **OK**, the IDE deactivates the default plug-in configuration. The IDE attempts to use this plug-in configuration for all CodeWarrior projects that do not have a custom configuration.

If a project was open, the IDE deactivates the plug-in for just this project.

# 3

# Using the mwSourceSafe Plug-in

This chapter explains how to use the mwSourceSafe plug-in.

The chapter contains these topics:



## Preparation

Before you can use the mwSourceSafe plug-in with a CodeWarrior™ project, you must first get the project's source files out of Visual SourceSafe. To do this, use the Visual SourceSafe Explorer program. Refer to the Visual SourceSafe documentation for instructions.

Once you have local copies of your project's source files, open the project in the CodeWarrior IDE. If you created the default plug-in configuration or assigned a custom configuration to the project, you can now use the mwSourceSafe plug-in with this project.


See "Creating a Default mwSourceSafe Plug-in Configuration" on page 14 and "Creating a Project-specific mwSourceSafe Plug-in Configuration" on page 18 for instructions that explain how to configure the mwSourceSafe plug-in.

# The Project Window

To use the mwSourceSafe plug-in, you must understand how the plug-in interacts with the project window of a CodeWarrior project. This is because the project window:

- Shows you the SourceSafe status of each file in the project and of the project itself.
- Lets you apply SourceSafe commands to files in the project and to the project itself.
- Shows you the results of a SourceSafe command.

## The Project Window and the Plug-in

Once you have activated the mwSourceSafe plug-in, a new column appears in the project window of the project for which the plug-in was activated (or in all project windows if you activated the plug-in globally). This column contains icons that signify the check out status of each file in the project. In addition, an icon in the lower-left corner of the project window indicates the check out status of the project file itself (the `.mcp` file).

Figure 3.1 shows the project window of a project for which the mwSourceSafe plug-in has been activated. Table 3.1 explains how to interpret each check out status icon.

**Figure 3.1 A Project Window with the mwSourceSafe Plug-in Active**

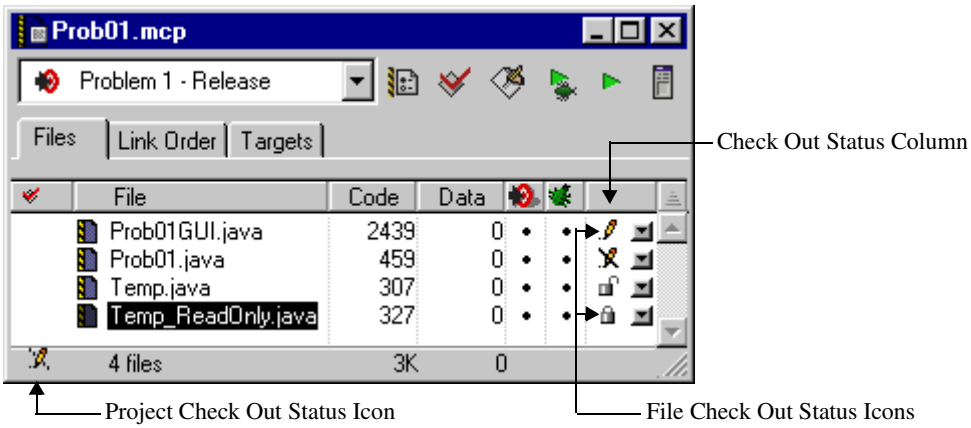


**Table 3.1 Check Out Status Icons: Interpretation**

| Icon | Check Out Status |
|---|---|
|  | File is not in SourceSafe.<br>Local copy of file is writable |
|  | File is not in SourceSafe.<br>Local copy of file is read-only. |
|  | File is not checked out.<br>Local copy of file is read-only. |
|  | File is not checked out.<br>Local copy of file is writable. |
|  | File is checked out.<br>Local copy of file is writable. |

# mwSourceSafe Command Locations

The mwSourceSafe plug-in lets you apply common Visual SourceSafe commands to a CodeWarrior project and to the files that belong to a project. To use the plug-in, you must know where to find these commands.

The mwSourceSafe plug-in makes SourceSafe commands available from these places:

- The IDE's VCS Menu
- The Context Menu of a Project Window
- The Editor Window

## The IDE's VCS Menu

The VCS menu is in the CodeWarrior IDE's menu bar.

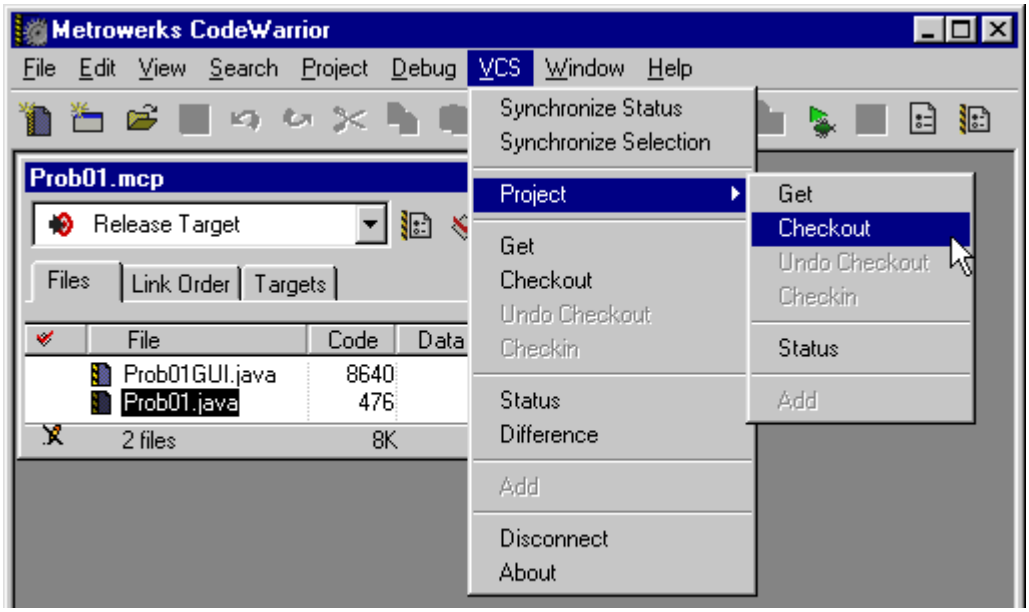
The VCS menu is present in the menu bar if at least one of these conditions is met:

- You have created a default plug-in configuration.
- You have assigned a plug-in configuration to a project, and that project is both open and selected.

The VCS menu includes every Visual SourceSafe command supported by the plug-in. Other menus (discussed below) include only a subset of the supported commands.

Individual items in the VCS menu are enabled or disabled depending upon the check out status of the current project or currently selected project file.

**Figure 3.2 The VCS Menu**



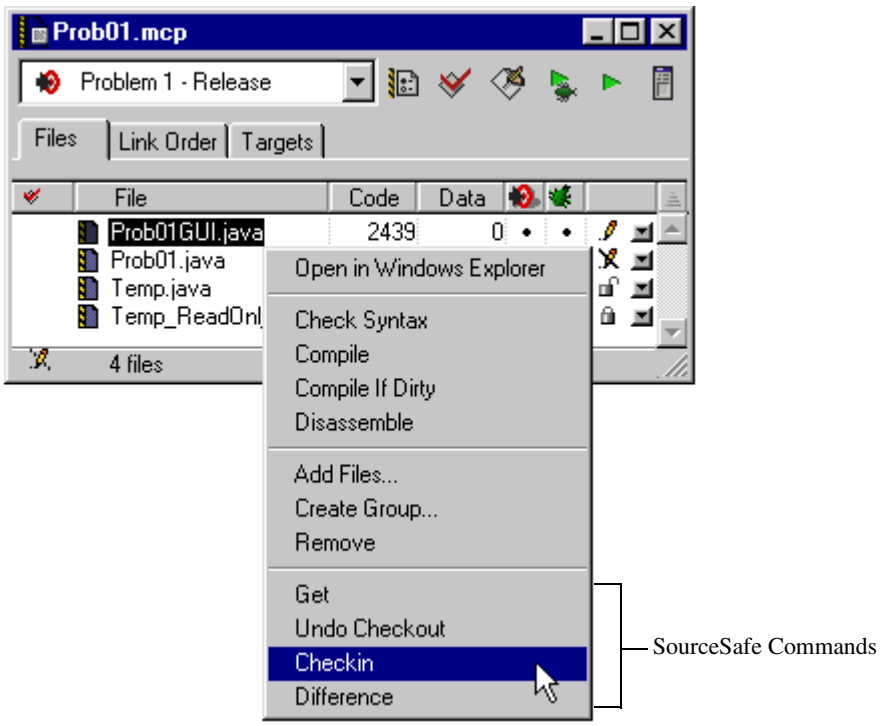

# The Context Menu of a Project Window

To display the project window context menu, right-click the mouse while its cursor is within the project window. Figure 3.3 shows a project window context menu.

If the project window is for a project for which you have activated the mwSourceSafe plug-in, the project window context menu includes SourceSafe commands at the bottom. Unlike the VCS menu, the context menu contains just a subset of the SourceSafe commands the plug-in supports. Further, the particular commands in the context menu vary depending upon the check out status of the currently selected file.

For example, because the file selected in Figure 3.3 is checked out, the context menu contains just the Get, Undo Checkout, Checkin, and Difference commands. These commands are pertinent for a file that is checked out.

**Figure 3.3 The Context Menu of a Project Window**




# The Editor Window

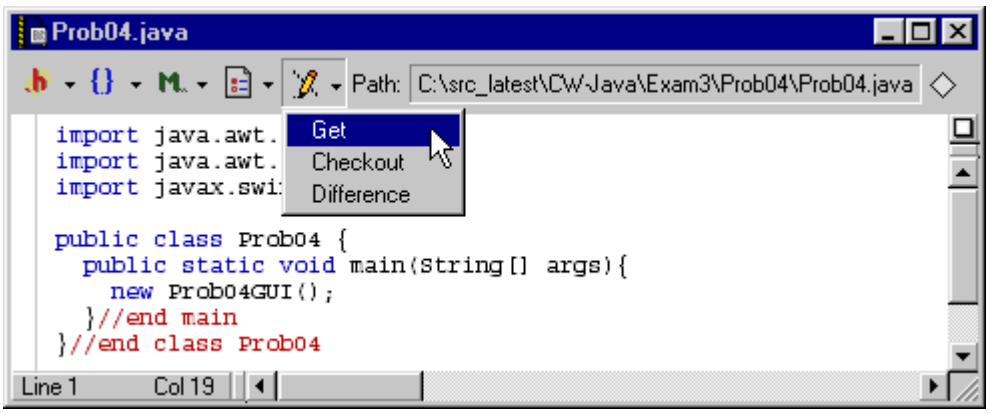
To open a file in an editor window, double-click the file's name in its project window. Figure 3.4 shows an editor window.

If the file belongs to a project for which you activated the mwSourceSafe plug-in, the editor window's toolbar includes one of the check out status icons (see Table 3.1 on page 27 for an explanation of how to interpret the check out status icons). The particular icon displayed corresponds to the check out status of the open file.

If you click the check out status icon, a dropdown menu appears. This menu contains SourceSafe commands. Unlike the VCS menu, the dropdown menu contains only a subset of the SourceSafe commands the plug-in supports. Further, the particular commands displayed vary depending upon the check out status of the open file.

For example, because the file in Figure 3.4 is not checked out, the dropdown menu contains just the Get, Checkout, and Difference commands. These commands are pertinent for a file that is not checked out.

**Figure 3.4 The Editor Window's SourceSafe Menu**




# mwSourceSafe Command Reference

This section explains each command supported by the mwSourceSafe plug-in. Table 3.2 lists these commands.

**Table 3.2 Commands Supported by the mwSourceSafe Plug-in**

| | |
|---|---|
| About | Add |
| Checkin | Checkout |
| Connect | Difference |
| Disconnect | Get |
| Status | Synchronize Selection |
| Synchronize Status | Undo Checkout |

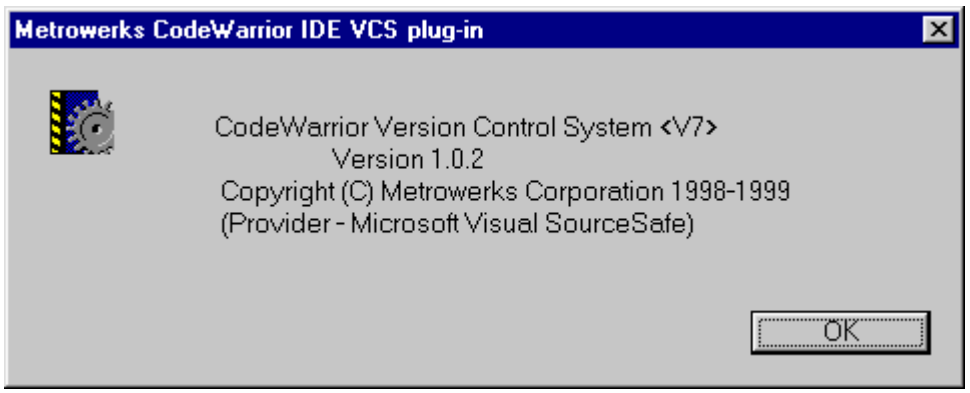
## About

The `About` command displays the "About" box for the mwSourceSafe plug-in. The About box displays the version number of the plug-in you are using along with copyright information.

To issue the `About` command, select **VCS > About**. An About box like that shown in Figure 3.5 appears.

**NOTE** The `About` command is present in just the VCS menu.

**Figure 3.5 About Box for the mwSourceSafe Plug-in**




## Add

You can apply the `Add` command to a file, to multiple files, or to a project.

If applied to a file, the `Add` command adds the selected file to SourceSafe.

If applied to a project, the `Add` command adds the project file (that is, the `.mcp` file) to SourceSafe.

To add a file to SourceSafe, follow these steps:

1. Open the project that contains the file to be added.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file to be added.

   The IDE highlights this file name.

**NOTE** To add multiple files, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

3. Select **VCS > Add**

   The **Add to SourceSafe** dialog box appears. Figure 3.6 shows this dialog box.

**Figure 3.6 The Add to SourceSafe Dialog Box**


4 Optionally, enter a comment for the file to be added.

5 Click **OK**

The **Add to SourceSafe** dialog box disappears. The plug-in adds the file to SourceSafe and makes its check out status icon:

**NOTE** To add a *project* to SourceSafe, follow the steps listed above with two exceptions:

- Skip step 2.

- In step 3, select **VCS > Project > Add** instead of **VCS > Add**

## Checkin

You can apply the `Checkin` command to a file, to multiple files, or to a project.

If applied to a file, the `Checkin` command adds the changes you made to the file to SourceSafe and creates a new version of the file in SourceSafe.

If applied to a project, the `Checkin` command adds the changes you made to the project file (that is, to the `.mcp` file) to SourceSafe and creates a new version of this file in SourceSafe.

**NOTE** You can only apply the `Checkin` command to a file or project that *you* have checked out. If a file is not checked out or is checked out by another user, you cannot check in the file.

Refer to the Visual SourceSafe documentation for more information about the `Checkin` command.

To check in a file, follow these steps:

1. Open the project that contains the file to check in.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file to check in.

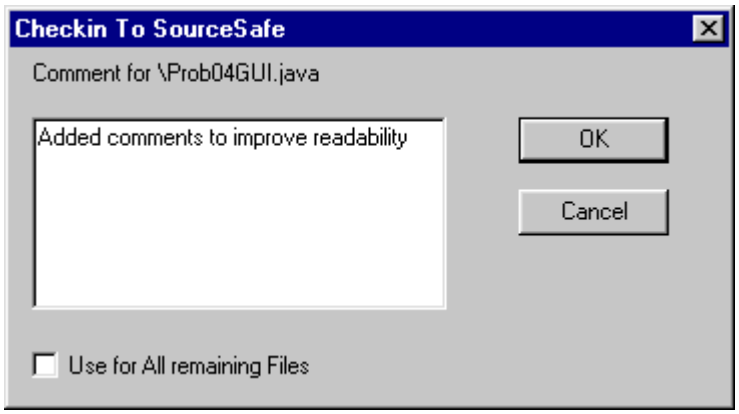
   The IDE highlights this file name.

**NOTE** To check in multiple files, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

3. Select **VCS > Checkin**

   The **Checkin to SourceSafe** dialog box appears. Figure 3.7 shows this dialog box.

**Figure 3.7 The Checkin to SourceSafe Dialog Box**




4. Optionally, enter a comment for the file being checked in.

5 Check the **Use for All remaining Files** box if you are checking in multiple files and want to use the same comment for each file. If you want to enter a different comment for each file, leave this check box clear.

6 Click **OK**

The **Checkin to SourceSafe** dialog box disappears. The plug-in checks in the selected file and changes its check out status icon to: 

**NOTE** To check in a *project* to SourceSafe, follow the steps listed above with two exceptions:

- Skip step 2.

- In step 3, select **VCS > Project > Checkin** instead of **VCS > Checkin**

## Checkout

You can apply the `Checkout` command to a file, to multiple files, or to a project.

If applied to a file, the `Checkout` command reserves the file so that you can change it and later check these changes into SourceSafe.

If applied to a project, the `Checkout` command reserves the project file (that is, the `.mcp` file) so that you can change it and later check in these changes.

See "Checkin" on page 32 for instructions the explain how to use this command.

**NOTE** In its default configuration, Visual SourceSafe allows just one user at a time to check out a file. However, you can configure SourceSafe so it allows more than one use to check out a file. See the Visual SourceSafe documentation for instructions.

Further, you do not have to check in a file that you have checked out. If you decide to discard the changes you made to a checked out file, apply the Undo Checkout command to the file.

To check out a file, follow these steps:

1. Open the project that contains the file to check out.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file to check out.

   The IDE highlights this file name.

**NOTE** To check out multiple files, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

3. Select **VCS > Checkout**

   The plug-in checks out the selected file and changes its check out status icon to: 

To check out a *project*, follow these steps:

1. Open the project that you want to check out.

   The CodeWarrior IDE displays the project window for this project.

2. Select **VCS > Project > Checkout**

   The plug-in checks out the project (that is, it checks out the project's `.mcp` file) and changes its check out status icon to:  . This icon appears in the lower-left corner of the project window.

## Connect

The `Connect` command connects the plug-in to the SourceSafe database specified in the plug-in's configuration.

**NOTE** See "Activating the mwSourceSafe Plug-in" on page 11 for instructions that explain how to configure the mwSourceSafe plug-in.

To connect to the SourceSafe database, follow these steps:

1 Open the project for which you want to connect to SourceSafe.

The CodeWarrior IDE displays the project window for this project.

2 Select **VCS > Connect**

If the plug-in configuration includes all information the plug-in needs to log into the database, the plug-in does so. See Table 2.1 on page 12 for an explanation of the plug-in's database login configuration options.

If the configuration does not include all required information or if the **Always show login dialog** option was chosen, the plug-in displays the **Version Control Login** dialog box. Figure 3.8 shows this dialog box.

**Figure 3.8 The Version Control Login Dialog Box**


To use this dialog box, follow these steps:

**a.** Enter a user name.

This user name does not have to be the one specified in the plug-in's configuration.

**b.** Enter the password that corresponds with the user name entered.

**c.** Click **OK**

The plug-in logs into the database configured for the plug-in using the user name and password supplied.

**NOTE** The `Connect` command is present in just the VCS menu. Further, if the plug-in is already connected, the command Disconnect appears in place of the `Connect` command.

## Difference

You can only apply the `Difference` command to an individual file. You cannot apply it to multiple files or to a project.

The `Difference` command displays the differences between your local copy of the selected file and the latest version of this file in SourceSafe.

To use the `Difference` command, follow these steps:

1. Open the project that contains the file to which to apply the `Difference` command.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file to which to apply the `Difference` command.

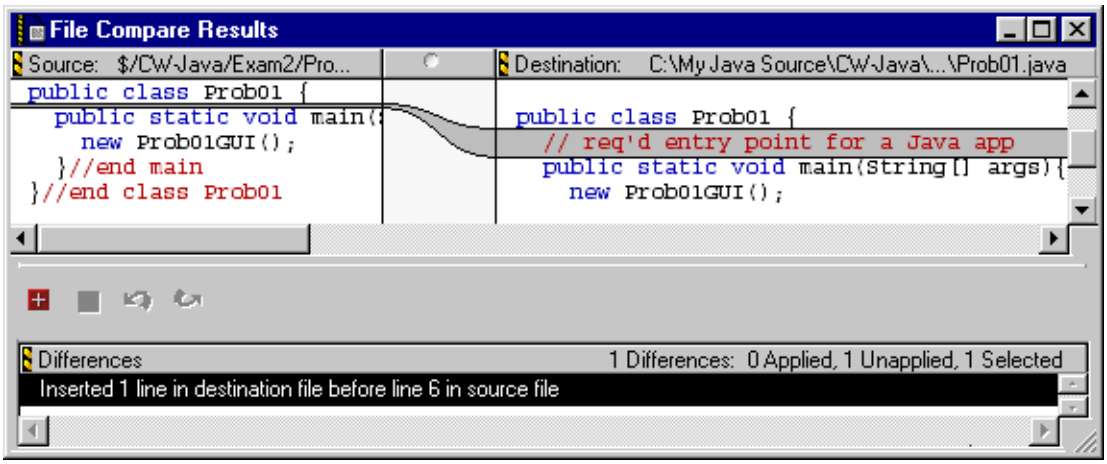
   The IDE highlights this file name.

3. Select **VCS > Difference**

   The plug-in compares the local copy of the selected file to the latest version of this file in SourceSafe. The plug-in displays the differences in the **File Compare Results** window of the CodeWarrior IDE. This window displays the SourceSafe version of the file in its left pane and the local copy of this file in its right pane.

   Figure 3.9 show the **File Compare Results** window. Refer to the *IDE User Guide* for instructions that explain how to use this window.

**Figure 3.9 The File Compare Results Window of the CodeWarrior IDE**



## Disconnect

The `Disconnect` command disconnects the plug-in from the SourceSafe database specified in the plug-in's configuration.

To disconnect the plug-in from its SourceSafe database, choose **VCS > Disconnect**.

**NOTE** The `Disconnect` command is present in just the IDE's VCS menu. Further, if the plug-in not yet connected, the command Connect appears in place of the `Disconnect` command.

## Get

You can apply the `Get` command to a file, to multiple files, or to a project.

If applied to a file, the `Get` command gets the latest version of the file from SourceSafe and places it in your working directory.

If applied to a project, the `Get` command retrieves the latest version of the project file (that is, the `.mcp` file) and places it in your working directory.

To get the latest version of a file, follow these steps:

1. Open the project that contains the file for which you want to get the latest version.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file for which to get the latest version.

   The IDE highlights this file name.

**NOTE** To get the latest version of multiple files, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

3. Select **VCS > Get**

   The plug-in gets the latest version of the selected file and changes its check out status icon to: 

To get the latest version of a *project*, follow these steps:

1. Open the project for which you want to get the latest version.

   The CodeWarrior IDE displays the project window for this project.

2. Select **VCS > Project > Get**

   The plug-in gets the project (that is, it gets the latest version of the project's `.mcp` file) and changes its check out status icon to: . This icon appears in the lower-left corner of the project window.

## Status

You can apply the `Status` command to a file, to multiple files, or to a project.

If applied to a file, the `Status` command reports the SourceSafe status of the file.

If applied to a project, the `Status` command reports the SourceSafe status of the project file (that is, the `.mcp` file).

To get the status of a file, follow these steps:

1. Open the project that contains the file for which you want to obtain status.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file for which to obtain status.

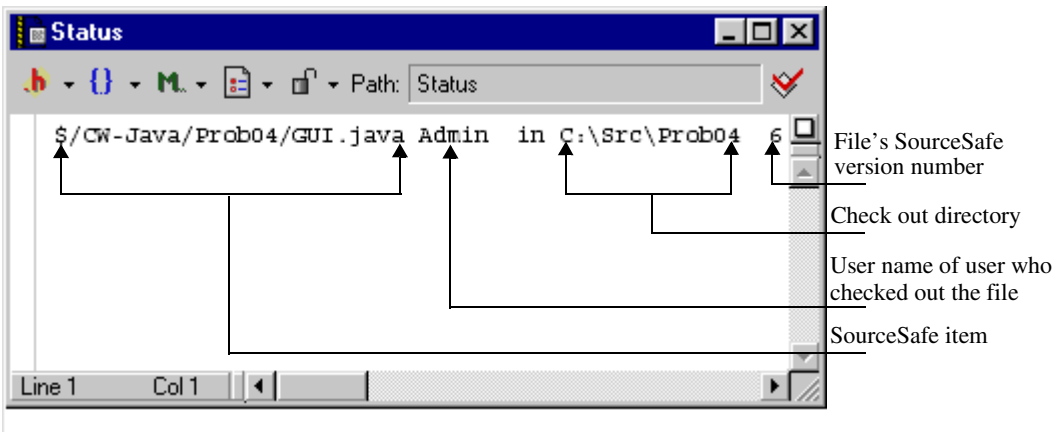
   The IDE highlights the file name.

**NOTE** To obtain the status of multiple files at once, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

3. Select **VCS > Status**

   The plug-in displays the **Status** window. Figure 3.10 shows this window.

### Figure 3.10 The Status Window




To get the status of a *project*, follow these steps:

1. Open the project for which you want to obtain status.

   The CodeWarrior IDE displays the project window for this project.

2. Select **VCS > Project > Status**

   The plug-in displays the status of the project file (that is, the `.mcp` file) in the **Status** window. Figure 3.10 shows this window.

**NOTE** The `Status` command is present in just the IDE's VCS menu.

## Synchronize Selection

You can apply `Synchronize Selection` command to a file or files in a project. You cannot apply the command to the project itself.

The command verifies that the check out status icon currently displayed for the selected file matches the status of that file in SourceSafe. If there is a discrepancy, the plug-in displays the correct check out status icon for the selected file.

The mwSourceSafe plug-in sometimes displays the wrong check out status icon if you use the change the check out status of a file outside of the CodeWarrior IDE (for example, by using the Visual SourceSafe Explorer program). You can use the `Synchronize Selection` command to rectify this situation.

To issue the `Synchronize Selection` command, follow these steps:

1. Open the project that contains the file to synchronize.

   The CodeWarrior IDE displays the project window for this project.

2. In the project window, click the name of the file to synchronize.

   The IDE highlights this file name.

**NOTE** To synchronize the status of multiple files at once, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

3. Select **VCS > Synchronize Selection**

   The plug-in verifies that the check out status icon currently displayed for the selected file is correct. If not, the plug-in displays the correct check out status icon.

**NOTE** The `Synchronize Selection` command is present in just the IDE's VCS menu.

## Synchronize Status

The `Synchronize Status` command is applied to all files in a project and to the project itself.

The command updates the check out status icon of each file in the project and of the project file itself (that is, of the `.mcp` file).

The mwSourceSafe plug-in can sometimes display the wrong check out status icon. For example, if you change the check out status of a file or project outside of the CodeWarrior IDE (by using the Visual SourceSafe Explorer program), the plug-in might display the wrong check out status icon. Use the `Synchronize Status` command to rectify this situation.

To issue the `Synchronize Status` command, follow these steps:

1. Open the project that you want to synchronize.

   The CodeWarrior IDE displays the project window for this project.

2. Select **VCS > Synchronize Status**

   The plug-in updates the check out status icon for each file for it finds a discrepancy.

**NOTE** The `Synchronize Status` command is present in just the IDE's VCS menu.

## Undo Checkout

You can apply the `Undo Checkout` command to a file, to multiple files, or to a project.

If applied to a file, the `Undo Checkout` command changes the SourceSafe status of the file to "not checked out". As a result, you cannot check in any changes you made to the file while it was checked out.

If applied to a project, the `Undo Checkout` command changes the SourceSafe status of the project file (the .mcp file) to "not checked out". As a result, you cannot check in any changes you made the project file while it was checked out.

**NOTE** You can only apply the `Undo Checkout` command to a file or project that *you* have checked out. If a file is not checked out or is checked out by another user, you cannot undo the check out of this file.

Refer to the Visual SourceSafe documentation for more information about the `Undo Checkout` command.

To undo the check out of a file, follow these steps:

1. Open the project that contains the file for which you want to undo the check out.

   The CodeWarrior IDE displays the project window for this project.

**2** In the project window, click the name of the file for which to undo the check out.

The IDE highlights this file name.

**NOTE** To undo the check out for multiple files at once, highlight the name of each file. To do this, click each file name while holding down the **Ctrl** key.

**3** Select **VCS > Undo Checkout**

The plug-in undoes the check out of the selected file and changes its check out status icon to: 

**NOTE** To undo the check out of a *project*, follow the steps listed above with two exceptions:

- Skip step 2.

- In step 3, select **VCS > Project > Undo Checkout** instead of **VCS > Undo Checkout**

# 4

# Tutorial

This chapter consists of a tutorial. The tutorial shows you how to:

- Create a default configuration for the mwSourceSafe plug-in.
- Use the plug-in to perform common Visual SourceSafe tasks from within the CodeWarrior™ IDE.

The tutorial uses a demonstration Visual SourceSafe database. This database contains two CodeWarrior projects. As you work through the tutorial, you apply mwSourceSafe plug-in commands to the demonstration database.

The tutorial contains these lessons:



## Creating a Default Plug-in Configuration

Although you can create a custom plug-in configuration for each of your CodeWarrior projects, it may be easier to create a default plug-in configuration. The IDE *attempts* to use the default plug-in configuration for all projects that do not have a custom configuration. This approach may be easier because you only have to create one plug-in configuration.

Note the use of the word *attempts* in the paragraph above. The IDE cannot use the default plug-in configuration with any CodeWarrior project for which the default configuration conflicts with the setup of that project in SourceSafe. Fortunately, there is a way to configure the plug-in such that it works with every SourceSafe project setup. By the end of this lesson, you will know how to create such a plug-in configuration.

To create a default plug-in configuration that works with all CodeWarrior projects in a SourceSafe database, follow these steps:

1 Run Visual SourceSafe Explorer.

The program displays the **Visual SourceSafe Login** dialog box. Figure 4.1 shows the login dialog box.

**Figure 4.1 Visual SourceSafe Login Dialog Box**


2 Login to SourceSafe.

To do this, follow these steps:

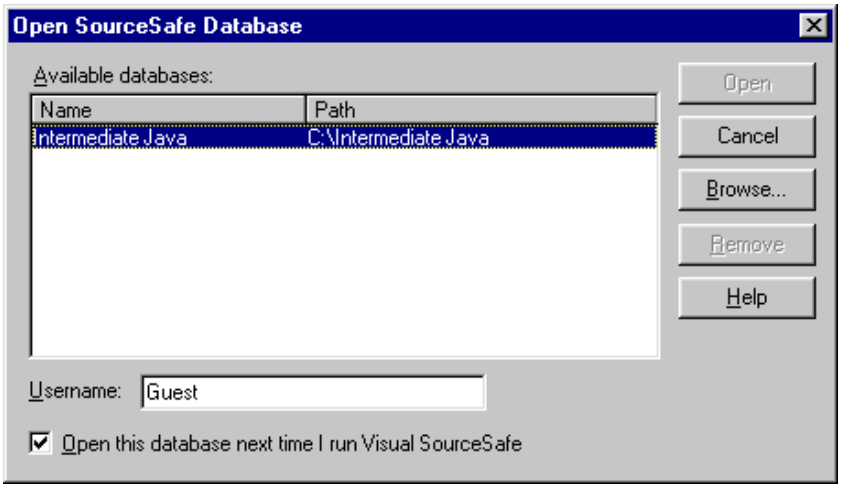
**a.** Enter `Guest` in the **Username** field.

**b.** Leave the **Password** field empty.

**c.** Click **Browse...**

The **Open SourceSafe Database** dialog box appears. See Figure 4.2.

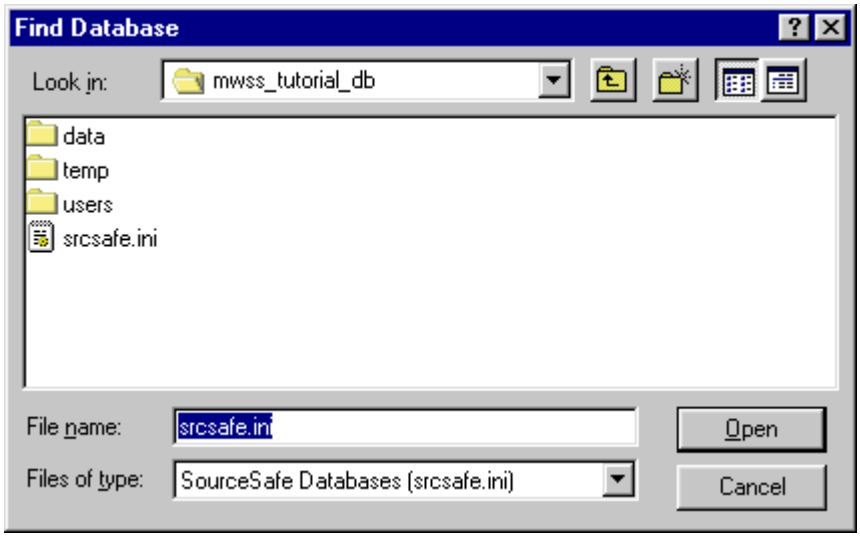
**Figure 4.2 Open SourceSafe Database Dialog Box**



**d.** Click **Browse...** again.

The **Find Database** dialog box appears. Figure 4.3 shows this dialog box.

**Figure 4.3 Find Database Dialog Box**




**e.** Use this dialog box to navigate to the directory that contains the tutorial's demonstration database. This directory is:

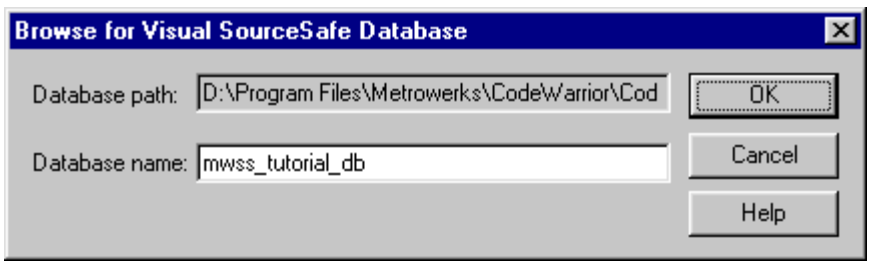
```
{CodeWarriorInstallDir}\CodeWarrior Manuals\
Code Examples\mwSourceSafe Plug-in User Guide\
mwss_tutorial_db
```

where *{CodeWarriorInstallDir}* is a placeholder for the path in which you installed your CodeWarrior product.

**f.** Click **Open**

The **Browse for Visual SourceSafe Database** dialog box appears. Figure 4.4 shows this dialog box.

**Figure 4.4 Browse for Visual SourceSafe Database Dialog Box**



**g.** Click **OK**

Visual SourceSafe Explorer adds the selected database to the **Open SourceSafe Database** dialog box.

**h.** Check the box labeled **Open this database the next time I run Visual SourceSafe**

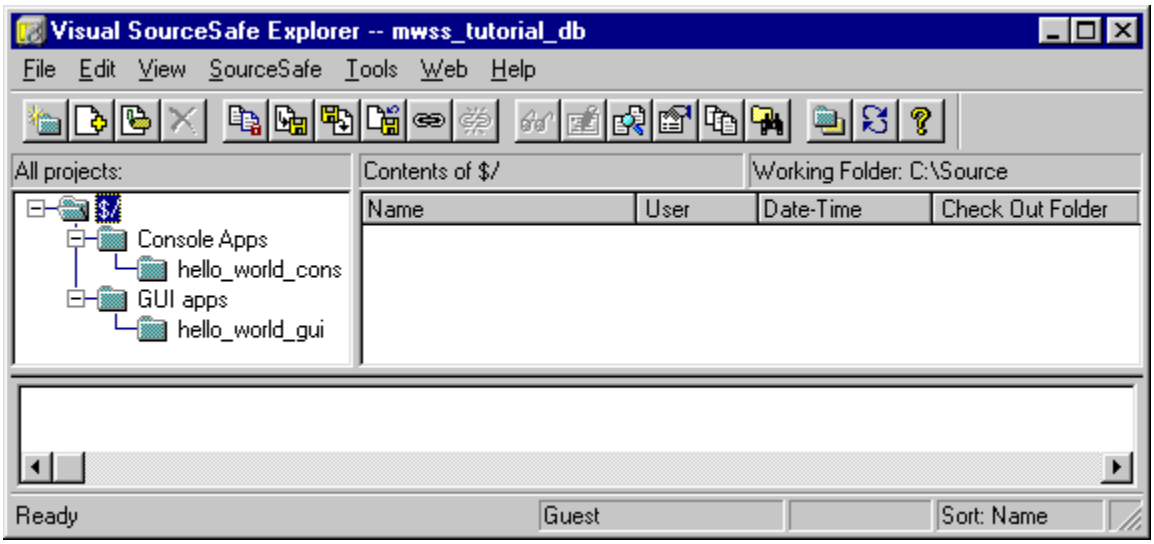
**i.** Click **Open**

The **Visual SourceSafe Login** dialog box reappears.

**j.** Click **OK**

Visual SourceSafe Explorer opens the tutorial database and displays its projects. Figure 4.5 shows Visual SourceSafe Explorer with the tutorial database open.

**Figure 4.5 Visual SourceSafe Explorer with the Tutorial Database Open**




**3** In the pane labeled **All projects**, click the project named `$/`

Visual SourceSafe Explorer highlights the name of this project and makes it the current project.

**NOTE** In SourceSafe, the name of the root project is `$/`

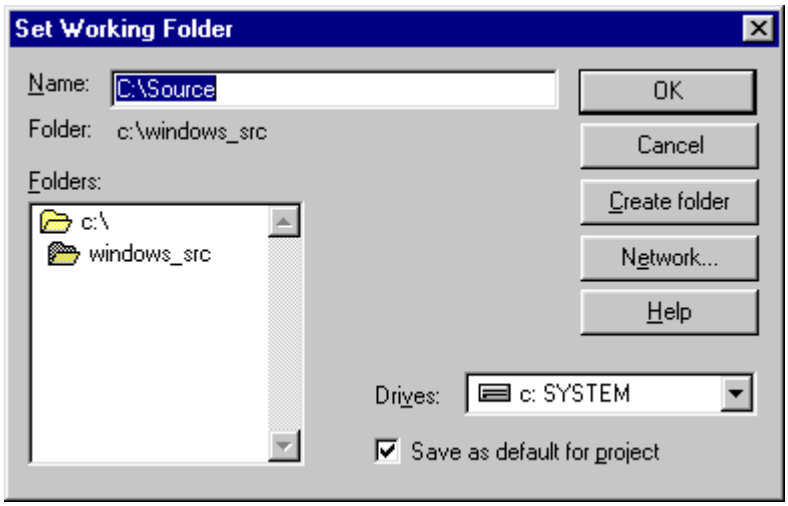
4 Assign a working folder to the root project.

To do this, follow these steps:

**a.** Select **File > Set Working Folder...**

The **Set Working Folder** dialog box appears. Figure 4.6 shows this dialog box.

**Figure 4.6 Set Working Folder Dialog Box**




**b.** In the **Name** field, enter `C:\Source`

**c.** Click **OK**

A "confirm" dialog box appears.

**d.** Click **Yes**

Visual SourceSafe Explorer creates the directory `C:\Source` on your hard disk and makes this directory the root project's working folder. In addition, Visual SourceSafe Explorer assigns a working folder whose path is rooted at `C:\Source` to each subproject of the root project.

5 Run the CodeWarrior IDE.

6 Close any open projects.

7 Select **Edit > VCS Settings...**

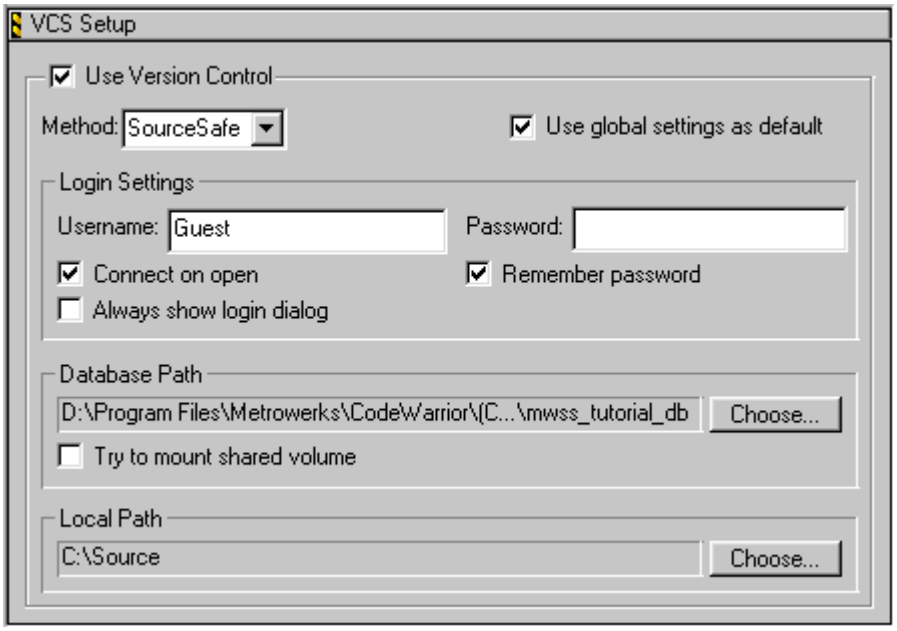
The VCS Settings window appears.

**8** Display the **VCS Setup** settings panel.

To do this, select the item labeled **VCS Setup**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

Figure 4.7 shows the VCS Setup settings panel.

**Figure 4.7 The VCS Setup Panel of the VCS Settings Window**




**9** Check the box labeled **Use Version Control**.

**10** Select the item labeled SourceSafe from the **Method** dropdown menu.

The IDE enables the rest of the items in the VCS Setup panel.

**11** Check the box labeled **Use global settings as default**.

This setting makes this plug-in configuration the default configuration. The IDE attempts to apply this configuration to all CodeWarrior projects that do not have a custom plug-in configuration.

**12** Enter `Guest` in the **Username** field.

**13** Check the box labeled **Connect on open**

**14** Check the box labeled **Remember password**

The plug-in enables the **Password** field.

**15** Leave the **Password** field blank (because user Guest has no password).

**16** Select the SourceSafe database to use in the default plug-in configuration.

For the purposes of this tutorial, select the database named `mwss_tutorial_db`. To do this, follow these steps:

**a.** Click the **Choose...** button in the **Database Path** group box.

The **Select an Access Path** dialog box appears.

**b.** Use this dialog box to navigate to this directory:

*{CodeWarriorInstallDir}*`\CodeWarrior Manuals\Code Examples\mwSourceSafe Plug-in User Guide\mwss_tutorial_db`

where *{CodeWarriorInstallDir}* is a placeholder for the path to the directory in which you installed your CodeWarrior product.

**c.** Leave the **Try to mount shared volume** check box unchecked.

**d.** Click **OK**

The full path to the tutorial database appears in the read-only field to the left of the **Choose...** button.

**17** Specify the local path to use in the default plug-in configuration.

To do this, follow these steps:

**a.** Click the **Choose...** button in the **Local Path** group box.

The **Select an Access Path** dialog box appears.

**b.** Use this dialog box to navigate to `C:\Source`, that is, to the working folder you created and assigned to the SourceSafe root project (`$/`).

**NOTE** The directory you specify for local path *must* match the working folder assigned to the SourceSafe project you intend to make the plug-in's **Base Project**. If you select another path, the plug-in will not work.

**c.** Click **OK**

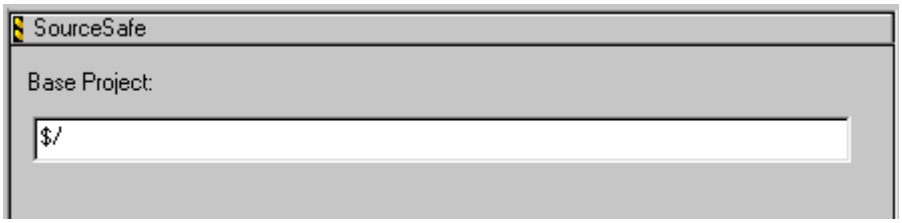
`C:\Source` appears in the read-only field to the left of the **Choose...** button.

**18** Display the SourceSafe settings panel in the VCS Settings window.

To do this, select the item labeled **SourceSafe**. This item is in the pane labeled **VCS Settings Panels**. This pane is on the left side of the VCS Settings window.

Figure 4.8 shows the SourceSafe settings panel.

**Figure 4.8 The SourceSafe Settings Panel of the VCS Settings Window**




**19** Enter `$/` in the **Base Project** text field.

**NOTE** For **Base Project**, you *must* enter the name of the SourceSafe project to which you assigned the local path specified in the VCS Setup panel. If you enter a different SourceSafe project name, the plug-in will not work.

**20** Click **OK**

The VCS Settings window closes. The IDE activates the mwSourceSafe plug-in globally and adds a VCS menu to its menu bar.

You have finished creating a default mwSourceSafe plug-in configuration. In addition, this particular configuration works for all CodeWarrior projects in the selected SourceSafe database because:

- The configuration's base project is the SourceSafe database's root project.
- The configuration's local path is the same as the working folder assigned to SourceSafe's root project.

# Getting a Project's Source Files

Before you can use the mwSourceSafe plug-in with a CodeWarrior project, you must first get the project's source code out of SourceSafe.

To get the `hello_world_gui` project out of SourceSafe, follow these steps:

1 Run Visual SourceSafe Explorer.

The program displays the **Visual SourceSafe Login** dialog box. Figure 4.1 on page 46 shows this dialog box.

2 Enter `Guest` in the **Username** field.

3 Click **OK**

Visual SourceSafe Explorer opens the tutorial database and displays its projects.

4 Get the latest version of the `hello_world_gui` project out of the tutorial database.

To do this, follow these steps:

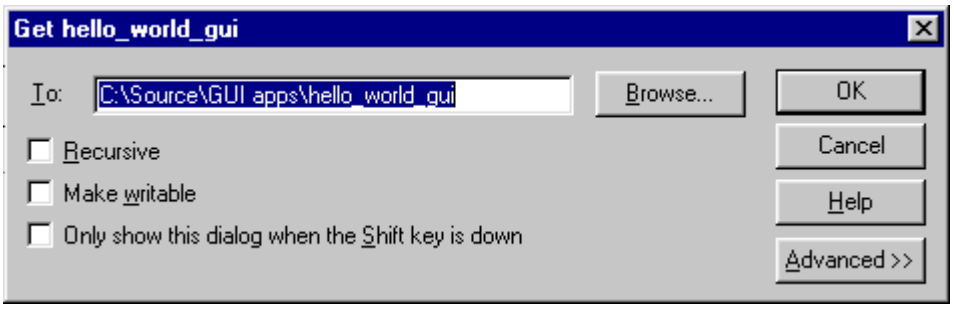
**a.** In the **All projects** pane of Visual SourceSafe Explorer, click the subproject named `hello_world_gui`.

Visual SourceSafe Explorer makes this project the current project.

**b.** Select **SourceSafe > Get Latest Version**

The **Get** dialog box appears. Figure 4.9 shows this dialog box.

**Figure 4.9 The Get Dialog Box**




**c.** Click **OK**

A "confirm" dialog box appears.

**d.** Click **Yes**

Visual SourceSafe Explorer gets the latest versions of the files in the `hello_world_gui` project and puts them on your hard disk in the working folder assigned to this project.

5 Quit Visual SourceSafe Explorer.

You now have the latest version of the `hello_world_gui` project on your local disk. Further, because the working folder for this project is rooted at the working folder assigned to the root SourceSafe project, the default plug-in configuration (created in the first part of this tutorial) works for the `hello_world_gui` project.

# Checking out Files

Now that you the latest version of the `hello_world_gui` project, you can open it in the CodeWarrior IDE and check out a file. You should check out any file that you intend to change.

To check out a file in the `hello_world_gui` project, follow these steps:

1 Run the CodeWarrior IDE.

2 Open the `hello_world_gui` project.

To do this, follow these steps:

**a.** Select **File > Open**

The Windows **Open** dialog box appears.

**b.** Use this dialog box to navigate to this directory:

`C:\Source\GUI Apps\hello_world_gui`

**c.** Select the file named `hello_world_gui.mcp`

**d.** Click **Open**

The IDE opens the `hello_world_gui` project and displays its contents in a project window.

---

**NOTE** Unless you have CodeWarrior for Windows, you cannot build and run the `hello_world_gui` project. However, you can still use the project to learn how to use the mwSourceSafe plug-in.

---

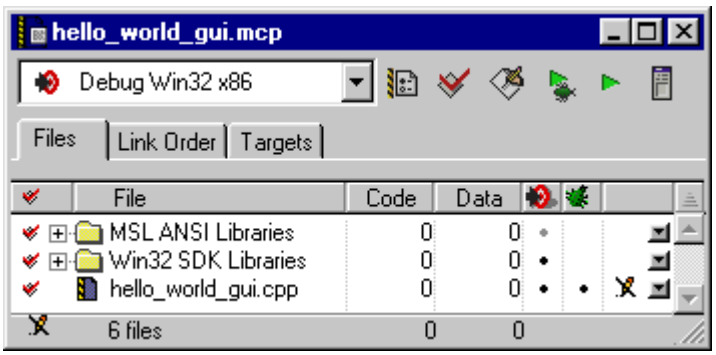
3 Select **VCS > Synchronize Status**

The project window displays the check out status icon for each file in the project and for the project itself.

Figure 4.10 shows the project window for the `hello_world_gui` project. Table 3.1 on page 27 explains how to interpret each of the check out status icons.

**NOTE** Any file in a CodeWarrior project that is not also in SourceSafe has no check out status icon. For example, a CodeWarrior project may include a system library, but this library may not be under source code control.

**Figure 4.10 Project Window for the hello_world_gui Project**




4 In the project window, click the file named `hello_world_gui.cpp`

The project window highlights this file name.

5 Select **VCS > Checkout**

The plug-in instructs SourceSafe to check out `hello_world_gui.cpp`.

SourceSafe copies the latest version of the file to its project's working folder, makes the file writable, and marks it "checked out."

The plug-in then changes the file's check out status icon to: .

6 Change the file as necessary.

To check out the project file (that is, the `.mcp` file) of the `hello_world_gui` project, follow these steps:

1. Select **VCS > Project > Checkout**

   The plug-in instructs SourceSafe to check out the file `hello_world_gui.mcp`.

   SourceSafe copies the latest version of the project file to its project's working folder, makes the file writable, and marks it "checked out."

   The plug-in then changes the project file's check out status icon to:  . This icon appears in the lower-left corner of the project window.

2. Change the project file as necessary.

You have now checked out two files using the mwSourceSafe plug-in. Note that to accomplish the same thing without the plug-in, you have to:

- Run Visual SourceSafe Explorer.
- Navigate to the files you want to check out.
- Highlight the names of these files.
- Select **SourceSafe > Check Out**

The plug-in allows you to achieve the same result in fewer steps without leaving the IDE. This saves time and lets you concentrate on programming.

# Checking in Files

Once you finish changing a checked out file, you are ready to check it back in.

To check a file into the `hello_world_gui` project, follow these steps:

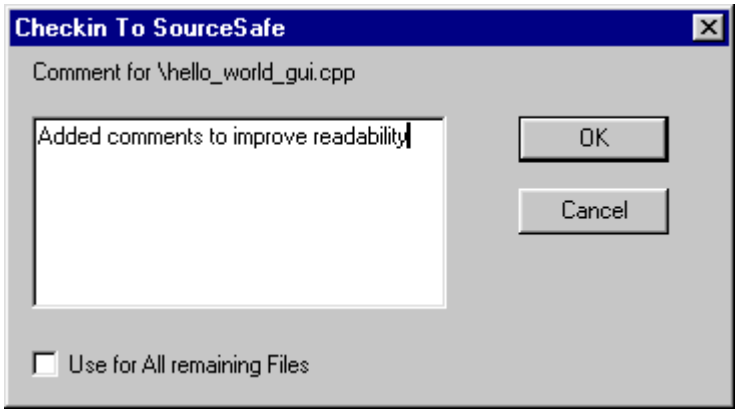
1. In the project window, click the file named `hello_world_gui.cpp`.

   The project window highlights this file name.

2. Select **VCS > Checkin**

   The plug-in displays the **Checkin to SourceSafe** dialog box. Figure 4.11 shows this dialog box.

**Figure 4.11 Checkin to SourceSafe Dialog Box**




3 Optionally, enter a checkin comment.

4 Click **OK**

The plug-in instructs SourceSafe to check in `hello_world_gui.cpp`.

SourceSafe creates a new version of the file, makes the local copy read-only, and marks the file "not checked out."

The plug-in then changes the file's check out status icon to: .

**NOTE** If you check out a file, do not to change it, and then check it back in, the default SourceSafe behavior is to undo the check out instead of creating a new version of the file.

To check in the project file (that is, the `.mcp` file) for the `hello_world_gui` project, follow these steps:

1 Select **VCS > Project > Checkin**

The plug-in displays the **Checkin to SourceSafe** dialog box. Figure 4.11 on page 57 shows this dialog box.

2 Optionally, enter a checkin comment.

**3** Click **OK**

The plug-in instructs SourceSafe to check in `hello_world_gui.mcp`.

SourceSafe creates a new version of the project file, makes the local copy read-only, and marks the project file "not checked out."

The plug-in then changes the project file's check out status icon to:  . This icon appears in the lower-left corner of the project window.

# Index

## M



## O



## P



## R



## S



## T

## U



## V