

# CodeWright Synchronization with Microsoft Visual Studio .NET

CodeWright provides synchronization with Microsoft Visual Studio .NET and removes the clumsiness of dealing with two editors. The CodeWright synchronization with Microsoft Visual Studio .NET is bi-directional (i.e. files in CodeWright can be loaded into .NET and vice versa) and easily configured. You can synchronize files initially from either CodeWright or .NET. Then just switch focus between the applications (such as with [Alt]-[Tab]) to synchronize files automatically.

## Setting up the Initial Synchronization

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Synchronization between CodeWright 7.0 and Microsoft Visual Studio .NET requires the following initial setup steps:

1. Download the Visual Studio .NET synchronization addon for CodeWright 7.0. To do this, go to <http://www.starbase.com/codewright/support/addons>. Click on the link for **CodeWright 7.0 Addons**, and click on the link for **visualstudio.net.zip**.
2. Unzip the file and run the executable cwvync7.exe.
3. You will be given the option to run the **VCSync Configuration** dialog at this time. If you choose to do so, an icon for the dialog is placed in your Windows systray. Right-click on the icon and choose **Configure** to display the dialog. Refer to the topic *Configuring Synchronization Options* for further instructions.
4. Open CodeWright and go to **Customize | Libraries**.
5. Verify that the **Synchronization** module is marked and press **OK** to exit the **Load CodeWright DLL** dialog.
6. Run Visual Studio .NET and go to **Tools | Add-in Manager**.
7. Mark the item **CWVS7Addin** and exit the dialog.

If you have set options on the **VCSync Configuration** dialog, you should be ready to use .NET synchronization. If you chose not to run the configuration dialog, refer to the following section.

## Running the VCSync Configuration Dialog

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To access the **VCSync Configuration** dialog, you can complete the following steps:

1. In Windows, access the CodeWright program group by going to **Start | Programs | CodeWright**.
2. Click the item **CodeWright MS Sync** to invoke VCSync. An icon for the **VCSync Configuration** dialog is placed in your systray.
3. Right-click on the icon and select **Configure**. The **VCSync Configuration** dialog displays.

**Note:** Refer to the following topic, *Configuring Synchronization Options*, for a detailed description of the fields in this dialog. Once you have configured settings on the **VCSync Configuration** dialog, you should not need to run it again.

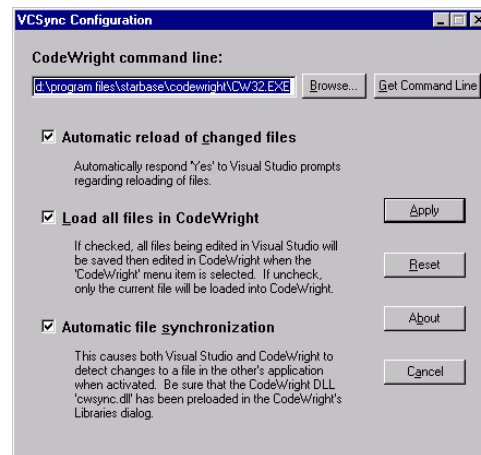
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# Configuring Synchronization Options

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The **VCSync Configuration** dialog is depicted in the image at right:

**VCSync Configuration Dialog**



The following configuration options are available in the **VCSync Configuration** dialog. Use them according to the descriptions provided.

- **CodeWright Command line:** This edit box is for the location (path) and command executable to CW32.EXE. The full, correct directory and executable name of the CodeWright executable is needed if CW32.EXE is not set in the PATH environment. The **Get Command Line** button (described next) can be used for quickly inserting the full path and executable name.
- **Get Command Line** button: Goes to the registration database and finds the CW32.EXE and then adds the command line found to the CodeWright **Command line:** edit box.
- **Automatic reload of changed files** check box: Suppresses the message box that displays when Visual Studio has been activated and an open file in CodeWright has been modified. The message will only come up if the file was open in Visual Studio when you left it. If you answer "Yes" to this question, then the file is reloaded in Visual Studio.
- **Load all files in CodeWright** check box: Opens all Visual Studio Project files into CodeWright, at the time the CodeWright menu item is selected. If unchecked, only the current component is opened in CodeWright.
- **Automatic file synchronization** check box: Suppresses the message box that notifies you of the need to save any CodeWright file that has been modified when you do not have the CodeWright Environment set to **Save on Loss of Focus** and Visual Studio is activated. All files currently modified in CodeWright are also automatically saved.
- **Apply** button: Updates the current configuration settings into the registration database.
- **Reset** button: Resets the original settings to those in effect when you entered the dialog.
- **Cancel** button: Cancels out of the dialog without saving the changed settings.
- **About** button: Displays an **About** dialog box with version information about the Add-In.

Once you have configured settings on the **VCSync Configuration** dialog, you should not need to run it again.

## A First View

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Once you have set up VCSync appropriately, start Visual Studio .NET (if it is not already running). There should be a new **Tools | Synchronize with CodeWright** menu item. Click on this item to start CodeWright with all the same files that were loaded in Visual Studio's text editor.

On the CodeWright side, you can enable the **MSDevSync** toolbar in the **Customize | Toolbars** dialog. This toolbar has buttons to synchronize the current file or all open files. The toolbar buttons allow you to update files in Visual Studio without giving it focus.

A switch between the two programs (e.g. using **[Alt]-[Tab]**) will automatically reload files that were changed in the other program. When synchronizing CodeWright and Visual Studio, changes to files are detected at three different times during normal editing:

- When either Visual Studio or CodeWright is first invoked.
- When either Visual Studio or CodeWright becomes the active application.
- When either Visual Studio or CodeWright edits an existing file on disk.

When you switch tasks between the two programs, each will automatically reload any source files that were changed in the other, maintaining the cursor position in both directions.

## Additional Documentation

The User's Guide chapter on **Projects, Project Spaces and Workspaces**, describes how to create and maintain a development project within CodeWright.

The User's Guide chapter on **View Setups and Language Support**, describes extension-specific setup.