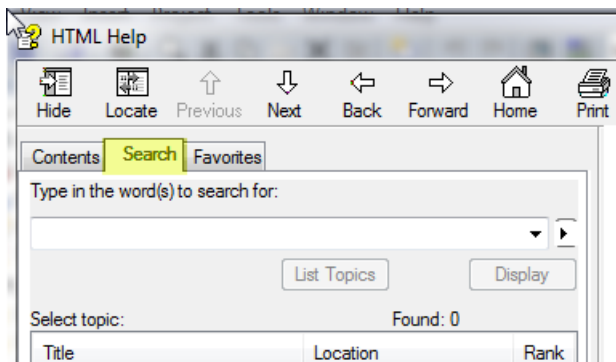# 2500P-ACP1: How do upload a program from the ACP1 to my computer?

CTI Workbench allows the user to "save" the project source code to the target (ACP1) and then upload it later into CTI Workbench. In order to upload a program to your computer, it must have had the source files saved to the ACP1.

Two methods can be used to save the source code, as described in CTI Workbench Help file.

The first method is to do a manual save of the source code. The second method is to change the project settings so that the source files are saved to the ACP1 automatically each time the program is downloaded.

To see the help article, choose the "Search" tab to display descriptions for specific topics:
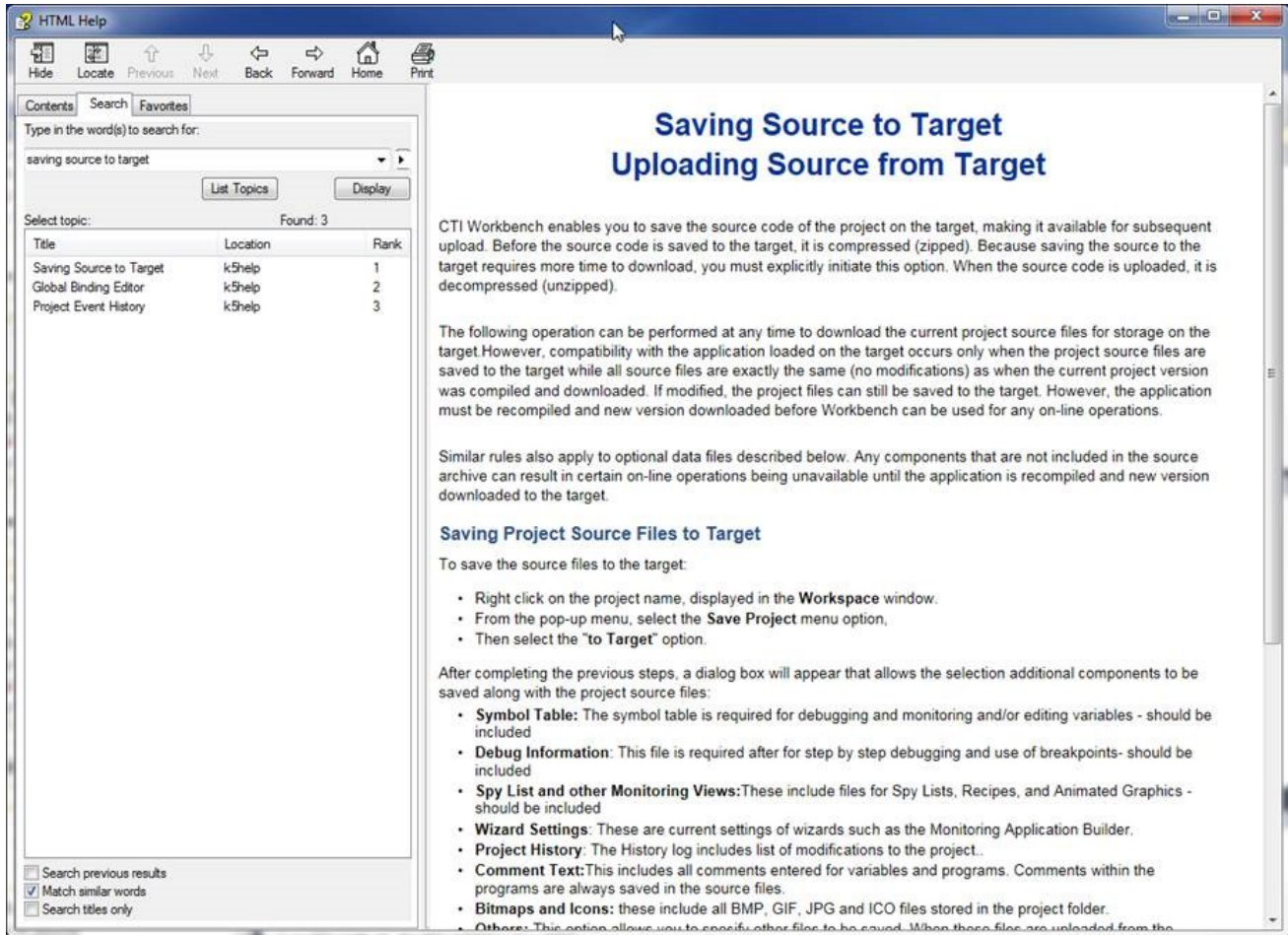

Enter "saving source to target" in the search field.

The displayed page describes a manual method for saving the source code on the ACP1 and later uploading it to CTI Workbench when required.

This method can be used any time CTI Workbench is "online" with the ACP1 as described in the online 'Help' file.

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Saving Source to Target
Uploading Source from Target

CTI Workbench enables you to save the source code of the project on the target, making it available for subsequent upload. Before the source code is saved to the target, it is compressed (zipped). Because saving the source to the target requires more time to download, you must explicitly initiate this option. When the source code is uploaded, it is decompressed (unzipped).

The following operation can be performed at any time to download the current project source files for storage on the target.However, compatibility with the application loaded on the target occurs only when the project source files are saved to the target while all source files are exactly the same (no modifications) as when the current project version was compiled and downloaded. If modified, the project files can still be saved to the target. However, the application must be recompiled and new version downloaded before Workbench can be used for any on-line operations.

Similar rules also apply to optional data files described below. Any components that are not included in the source archive can result in certain on-line operations being unavailable until the application is recompiled and new version downloaded to the target.

Saving Project Source Files to Target

To save the source files to the target:

- Right click on the project name, displayed in the **Workspace** window.
- From the pop-up menu, select the **Save Project** menu option,
- Then select the "**to Target**" option.

After completing the previous steps, a dialog box will appear that allows the selection additional components to be saved along with the project source files:

- **Symbol Table**: The symbol table is required for debugging and monitoring and/or editing variables - should be included
- **Debug Information**: This file is required after for step by step debugging and use of breakpoints- should be included
- **Spy List and other Monitoring Views:** These include files for Spy Lists, Recipes, and Animated Graphics - should be included
- **Wizard Settings**: These are current settings of wizards such as the Monitoring Application Builder.
- **Project History**: The History log includes list of modifications to the project..
- **Comment Text:** This includes all comments entered for variables and programs. Comments within the programs are always saved in the source files.
- **Bitmaps and Icons**: these include all BMP, GIF, JPG and ICO files stored in the project folder.
- **Others**: This option allows you to specify other files to be saved. When these files are uploaded from the

To get help for changing project setting for automatic download, enter "project settings debugging" in the search field.

The displayed page describes steps required to automatically download the source code each time the project is downloaded to the ACP1.

This method automatically downloads the project source code along with the executable file each time the project is downloaded to the ACP1.

HTML Help

Contents | Search | Favorites

Type in the word(s) to search for:

project settings debugging

List Topics | Display

Select topic: Found: 17

Title	Location	Rank
Project Settings - Debugging	k5help	1
Saving Source to Target	k5help	2
Working with external objects	k5help	3
Project Settings-General	k5help	4
Libraries of sub-programs and U...	k5help	5
Project Settings - Runtime	k5help	6
Running the Application	k5help	7
Project Settings	k5help	8
Project Settings - Compiler	k5help	9
Application Design	k5help	10
Step by Step Debugging	k5help	11
On Line Change	k5help	12
Keyboard Shortcuts	k5help	13
Using the Control Panel	k5help	14
Protecting a program	k5help	15
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Using Editors in Test Mode	k5help	17

☐ Search previous results
☑ Match similar words
☐ Search titles only

Project Settings - Debugging

The **Debugging** category contains settings that are commonly used to configure the debugging environment.

Communications Parameters

This setting allows you to specify IP Address and Port Number used to connect to the Ethernet port of the CTI product . Double-clicking on the value will open a dialog box that allows you to manage the settings. *Port 1100 must be specified for all connections between CTI Workbench and product.*.

Download Procedure

This setting allows you to specify the items that will be downloaded to the target while debugging.

Project source files are automatically downloaded to the target with each new project download when the **Send source code for later project upload** is selected.. This option provides a means of storing the source files associated with each application on the target device. Later, these source files can be uploaded into CTI Workbench when required.

The project files automatically included with source file download include all program files,used to compile application program, symbol table (required for program monitoring and editing variable data), debug information (required for step-by-step debugging), spy lists,graphics files, and bitmaps/icons. Any additional support files such project history text files must be explicitly added to be list of items to the downloaded for them to be included in the download procedure.

Always Start Simulator in Cold Start Mode

When this setting is enabled, the simulator will start in Cold Start mode (all variables set to their initialized values). When this setting is disabled, the start mode is selected via a dialog window each time the simulator is started. Start mode options are **Cold Start**, **Warm Start** (RETAIN variables restored to last value), or **Hot Restart** (all variables restored to last value).

Cycle Time During Debug

When this setting is enabled, you can edit the cycle time during the debug execution.

Prompt Before Stopping the Application

When this setting is enabled, you must confirm that you want the application to stop.
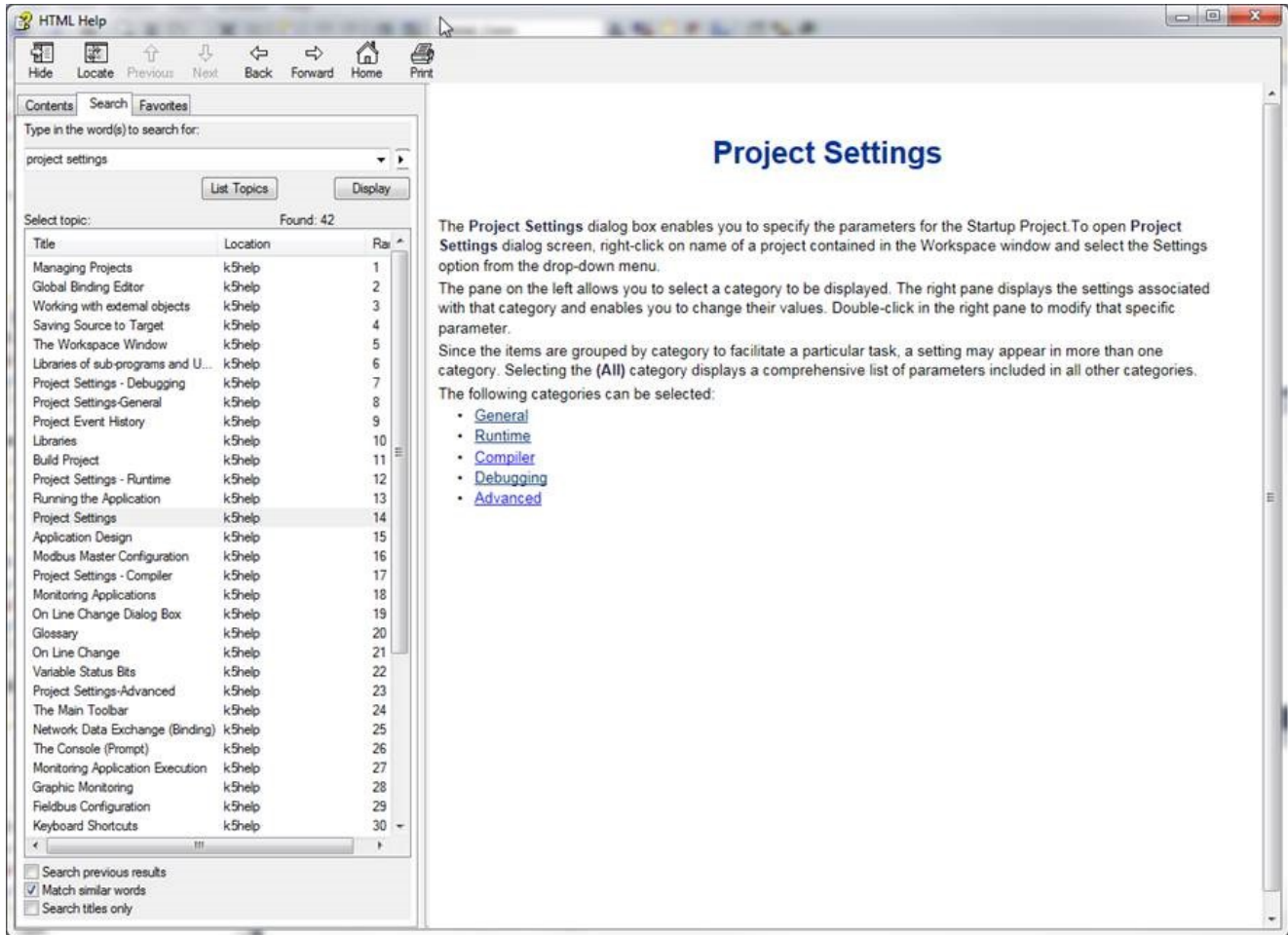
Prompt Before Downloading the Application Code

When this setting is enabled, you must confirm that you want to download application code.

Prompt before performing online change

When this setting is enabled, you must confirm each On-Line Change operation before it is attempted.

You also might want to view the "Project settings" page for a description of how to access this configuration window:

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