



Cadence Help User Guide

Product Version 2.0
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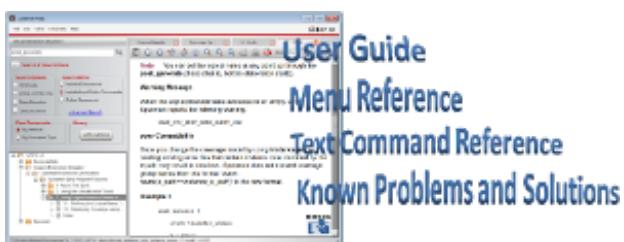
What's New in Cadence Help 2.0

Cadence Help 2.0 introduces the following features:

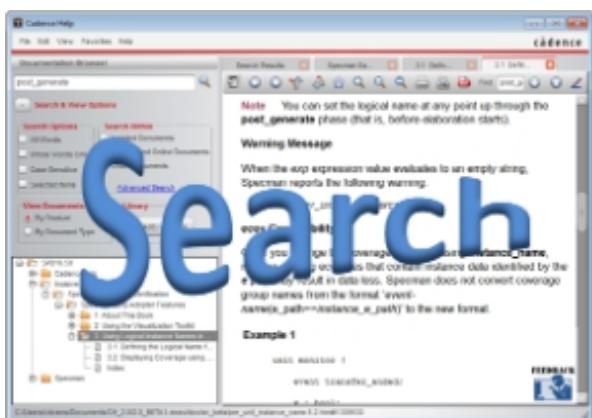
Feature	Description
Online search	The <i>Online Documents</i> option of Cadence Help enables you to search and view the latest version of the documents available online. For more details, see Search and View Options .
Provide feedback	You can right-click on the content and use the feedback option share documentation-related feedback. For more details, see Providing Feedback .
View history	You can view your search and browsing history by selecting <i>View – Show History</i> from the menu bar. For more details, see Show History .
Share documents	You can now share documents with others users. For details, see Sharing Documents .
Highlight search string	The search string now appears highlighted in search results and also in the topics that appear in search results.
Automatic index generation	The index is now generated automatically. For details, refer Indexing .
Faster search	Cadence Help search is now significantly faster.
Online documentation	In case documentation for a Cadence tool is not installed on your machine, pressing F1 from the tool will now allow you to view the documentation online, provided the documentation is available online.

Introducing Cadence Help

Cadence Help is a powerful tool through which you can access, view, and search the help documentation for all Cadence products installed on your machine. You can use the [documentation browser](#) to browse the entire set of documentation, including user guides, menu references, text command references, known problems and solutions, and what's new documents; and you can use the [topic viewer](#) to view the relevant topics.



You can search the entire [document library](#) using the Cadence Help [search options](#), and find the particular piece of content you are looking for. Be it a product feature, command syntax, usage example, menu functionality, or any other piece of information, the [search options](#) can help you find just what you need.



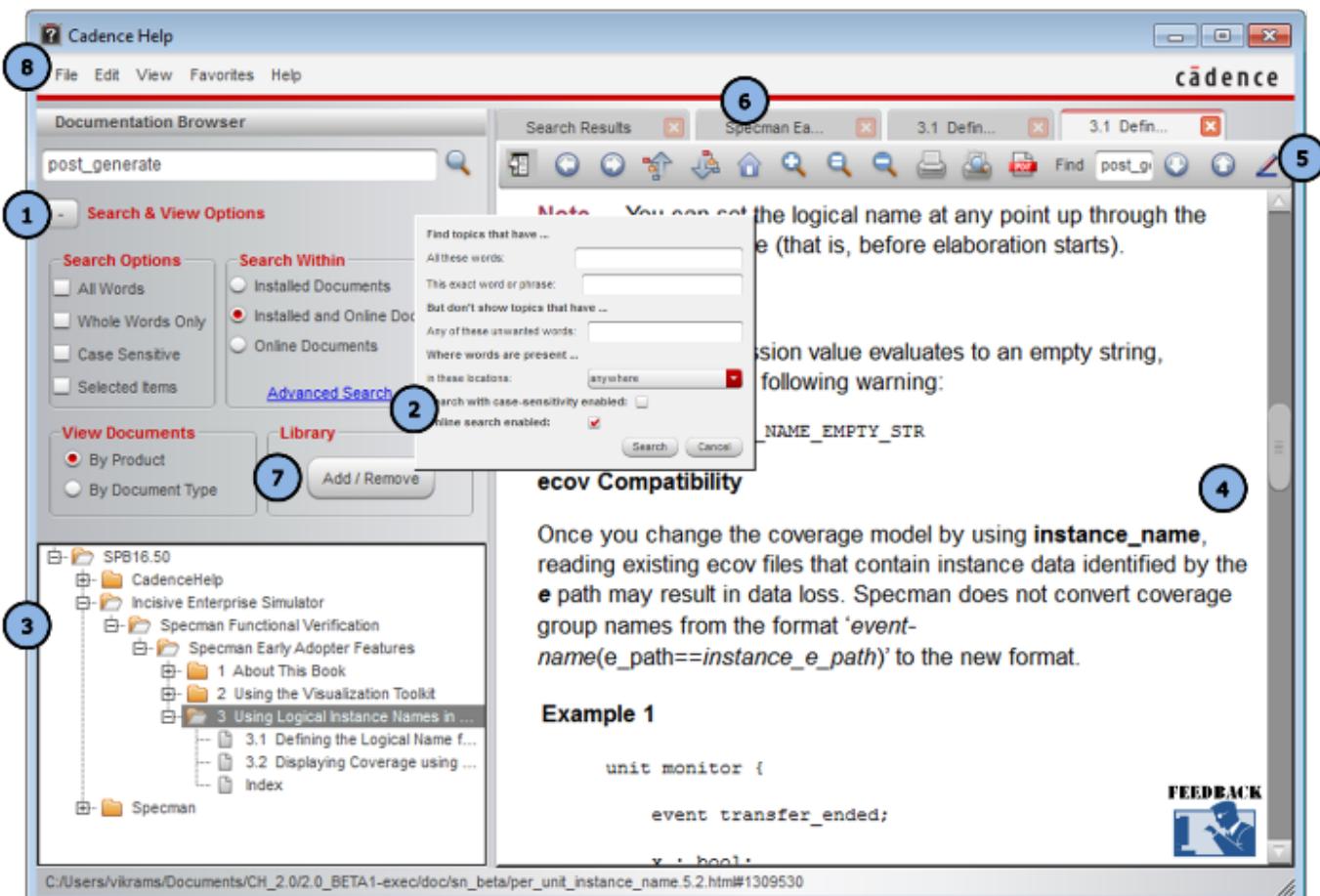
Not able to find what you are looking for? Use the [advanced search](#) options to obtain more precise results. You can also [search within online documents](#) to access the latest version of documents available on [Cadence Online Support](#).



Cadence Help contains features such as [using multiple tabs](#), [viewing search history](#), [adding favorites](#), [filtering search results](#), [sorting search results](#), and more to provide you an enriching viewer experience.



Cadence Help Interface Overview



1	To perform a search, type a term in the search box and press  , or use Search and View Options to refine your search.
2	The Advanced Search options can help you find precisely what you are looking for.
3	You can explore the documentation installed on your machine from the Documentation Browser area.
4	The Topic Viewer area displays the search results as well as individual topics from the help documents.
5	The various features of Topic Toolbar can be used to optimize your viewing experience.
6	You can use tabs to open and view multiple topics simultaneously.
7	The library feature enables you to add or delete libraries, hide or show libraries, or change the order of their appearance in the documentation browser.
8	You can use the menu options to perform tasks such as importing and exporting documents, modifying the settings, viewing search history, and organizing favorites.

Cadence Help Shortcuts

To Do This	Press
Open Help	F1
Show/Hide Documentation Browser	F2

Open Settings	Ctrl-K
Select Multiple Topics	Shift-Click
Open in New Window	Shift-Double-Click
Open Current Topic in New Window	Ctrl-N
Open Library File	Ctrl-L
Open XML	Shift-L
Add to Favorites	Ctrl-D
Print	Ctrl-P
Close A Topic	Ctrl-W
Exit Cadence Help	Ctrl-Q
Organize Favorites	Ctrl-Shift - B
Hide Toolbar	F4
Show/Hide Search and View Options	F7
Copy Selected Text	Ctrl-C
Copy Current Location	Ctrl-Shift-C
Next Page	Ctrl-Page Down
Previous Page	Ctrl-Page Up
Display Cadence Help Version	Alt-H-A
Show History	Ctrl-H
Clear History	Ctrl-Del

Command-Line Switches

The following table lists the command-line switches for Cadence Help:

Task	Command-line Switch

Start Cadence Help, setting the documentation path to <path>	-hierarchy <path1:path2:pathn>
Start Cadence Help, rebuilding the xml organizer files as well as refreshing the index	-refresh
Start Cadence Help on the page specified by <i>toolname</i> and <i>tagname</i>	-openpage <toolname>:<tagname>
Launch the Cadence Help GUI on screen number <i>n</i> of machine <i>host</i>	-display
Show the current version of Cadence Help	-version
Searches the given text	-search
List the command-line switches and their description	-help

Starting Cadence Help

To start Cadence Help from the command prompt, change directory to <installation_dir>/tools/bin, and then enter the command ./cdnshelp

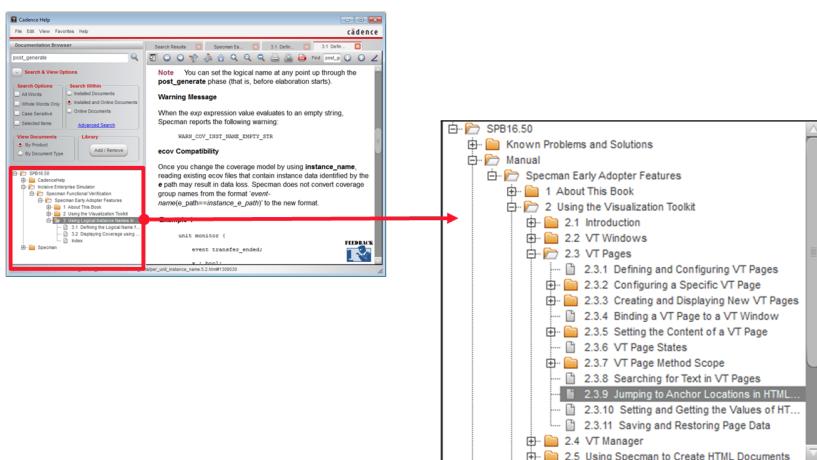
 You can also double-click the <installation_dir>/tools/bin/cdnshelp.exe file to open Cadence Help in Windows.

To start Cadence Help from a Cadence application, either press F1 or click the *Help* button.

 The F1 launch of Cadence Help depends on the Cadence application you are working with.

For more advanced options, refer [Command Line Switches](#).

Documentation Browser

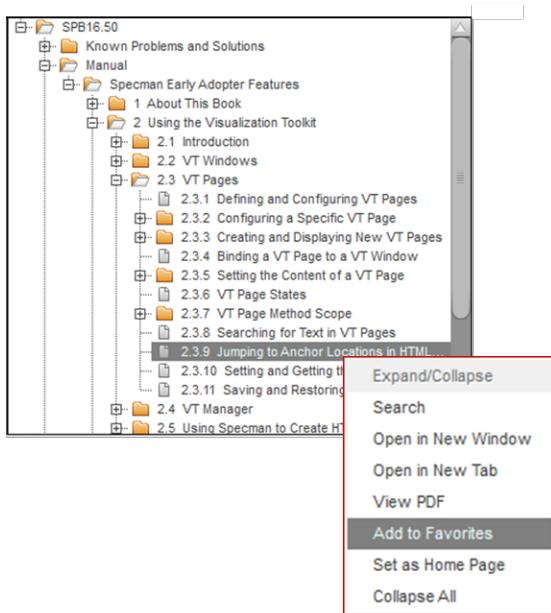


The Documentation Browser displays the entire set of documentation for Cadence products that are installed on your machine. You can use the Documentation Browser to explore the product documentation organized in the order of Releases → Products → Manuals → Topics. You also have the choice to view documentation by product or documentation type. The Documentation Browser sorts and displays the topics within a library either numerically or alphabetically, unless there is a pre-specified order.



You can press F2 to hide or show the Documentation Browser.

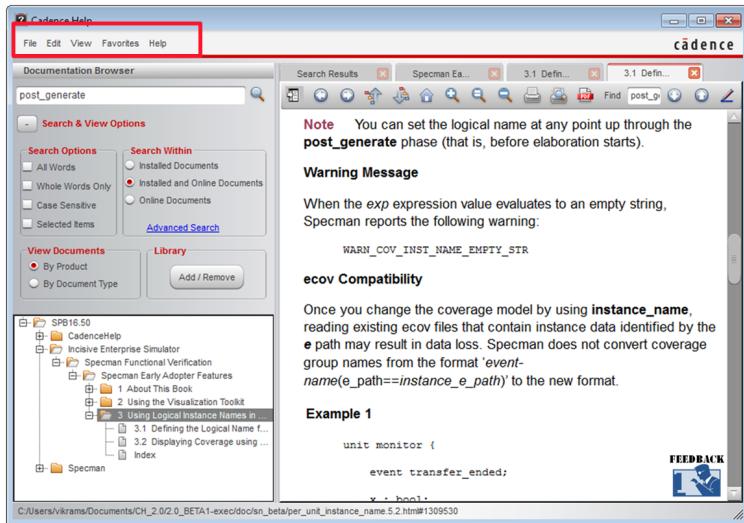
Right-Click Options



You can right-click a topic in the Documentation Browser to:

- Perform a search within that topic
- Open the topic in a new window
- Open the topic in a new tab
- View the PDF associated with the topic
- Add a topic to favorites
- Set the topic as your home page
- Collapse the documentation hierarchy

Menu Options



The menu options can be used to:

- [Generate XML files](#)
- [Export documents](#)
- [Import documents](#)
- [Configure Home documents](#)
- [Modify settings](#)
- [View history](#)
- [Add and organize favorites](#)

Configuring Home Documents

For details, see [Working with Documents](#).

Exporting Documents

To export a document from Cadence Help:

1. Select the document to be exported from the documentation browser

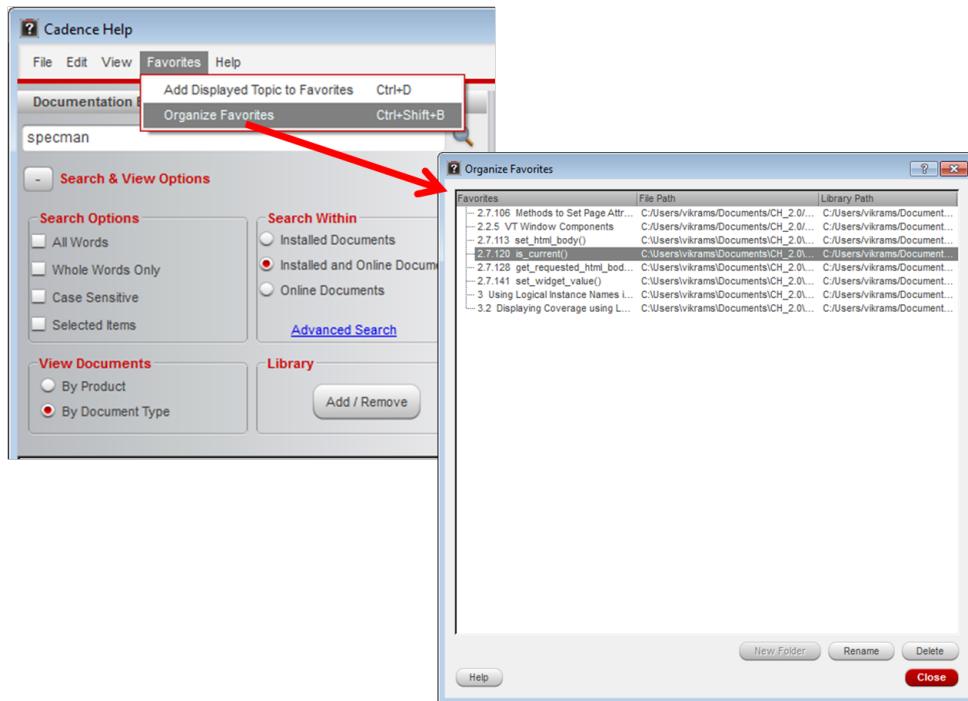
You can select multiple documents from the same/multiple libraries.

2. Select *File – Export* from the menu bar. The *Export Selected Items* window will appear.

3. Browse the location where you want to save the document and then press *Save*

The document will be exported in a Cadence Help readable format.

Favorites



You can click Favorites from the menu bar to add the displayed topic to favorites or to organize favorites.

Organize Favorites

You can use the *Organize Favorites* option to:

- Rename a topic
- Reorder a topic through drag and drop
- Delete a topic
- Create new folders or subfolders to sort favorites

Generating XML Files

In Cadence Help, the doc hierarchy is organized through XML files, also known as Topic Organizer files. These files contain elements that define products, manuals, and topics. An XML file may refer further XML files that organize content at lower levels in the hierarchy. In a particular Cadence installation, Cadence Help defines a top-level XML file called a Library, which provides the content organization for all the documentation installed at that location. This library file is named `library.lbr` and is located in the `<installation_dir>/doc/xmlreg` directory and also in a platform specific sub-directory, `<installation_dir>/doc/xmlreg/<platform name>` where `<platform name>` can be `lx86`, `sun4v`, `sol86`, `win32`, and so on.

When you launch Cadence Help, it also reads in the topics by going into each book directory in the `/doc` directory. These XML files are shipped with your product release. Cadence Help generates the XML files when run with the `-refresh` option.

 Your installation hierarchy contains default XML files that were shipped with the release. If you have modified documents and want to include them as topics, you need to have write permission on the <installation_dir>/doc directory to generate XML files.

To regenerate XML files, use the `-refresh` option:

```
./cdnshelp -refresh
```

You must then relaunch Cadence Help and use <installation_dir>/doc as the document set to view the documents from all hierarchy locations supported by Cadence Help.

 The `-refresh` option regenerates the XML files as well as refreshes the index.

Importing Documents

To import a document to Cadence Help:

1. Select *File – Import*. The *Import Data File* window will appear.
2. Select the document to be imported and then press *Open*.

 The document to be imported should be in a format compatible with Cadence Help. Therefore, you can import only those documents that were previously exported from Cadence Help.

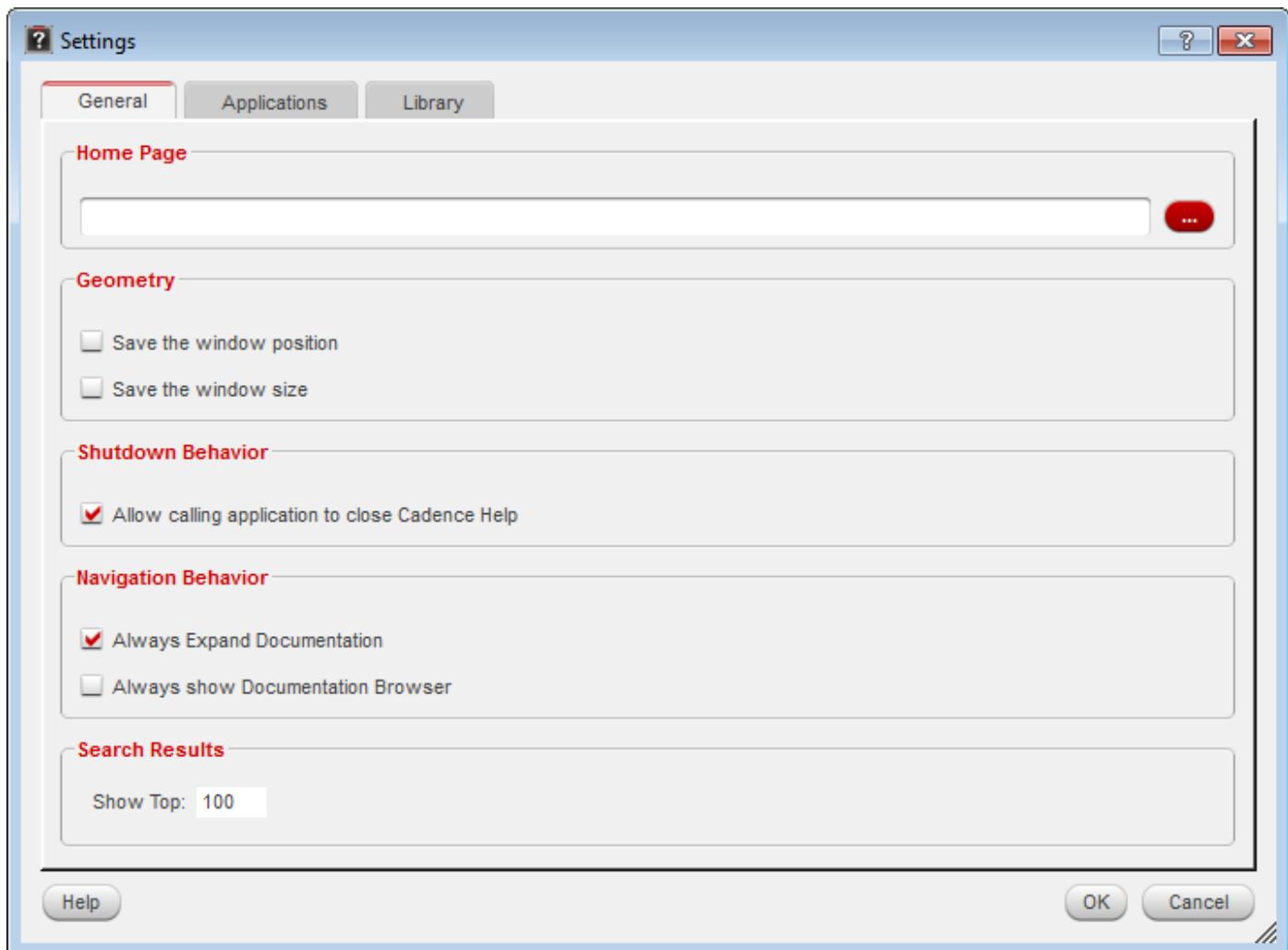
3. A pop-up message appears, specifying the location where the document will be saved. The pop-up message also provides you the option of changing the default location where the document will be visible in Cadence Help. Press *Yes* to change the location of the *Personal Docset* folder or *No* to retain the same location.
4. The *Configure Cadence Help* window appears. Press *Go*, and then *Ok* to continue.
5. The newly imported document will be visible in the Documentation Browser, under the *Personal Docset* folder.

Modifying Settings

You can select *Edit – Settings* to open the *Settings* window and modify:

- [General Settings](#)
- [Applications Settings](#)
- [Library Settings](#)

General Settings



You can use the *General* tab to set a home page, specify the geometry, and specify the shutdown behavior of the Cadence Help application.

Home Page

You can specify any HTML page from the doc hierarchy as the home page. This page will be displayed in the Topic Viewer when you click the *Home* button on the Topic Viewer toolbar. To specify the home page, click the *Browse for home page file* button and select an HTML file from the doc hierarchy. Click *OK* after you are done.

Geometry

Save the window position	You can drag the Cadence Help window to any position and then select <i>Save the window position</i> to save the current position of the window. The window will be opened at the saved location in future.
Save the window size	You can change the size of the window and select <i>Save the window size</i> to ensure that Cadence Help opens with the specified size in future.

Shutdown Behavior

Allow calling application to close Cadence Help: Cadence Help will exit when the Cadence tool from which it was invoked is closed.

Navigation Behavior

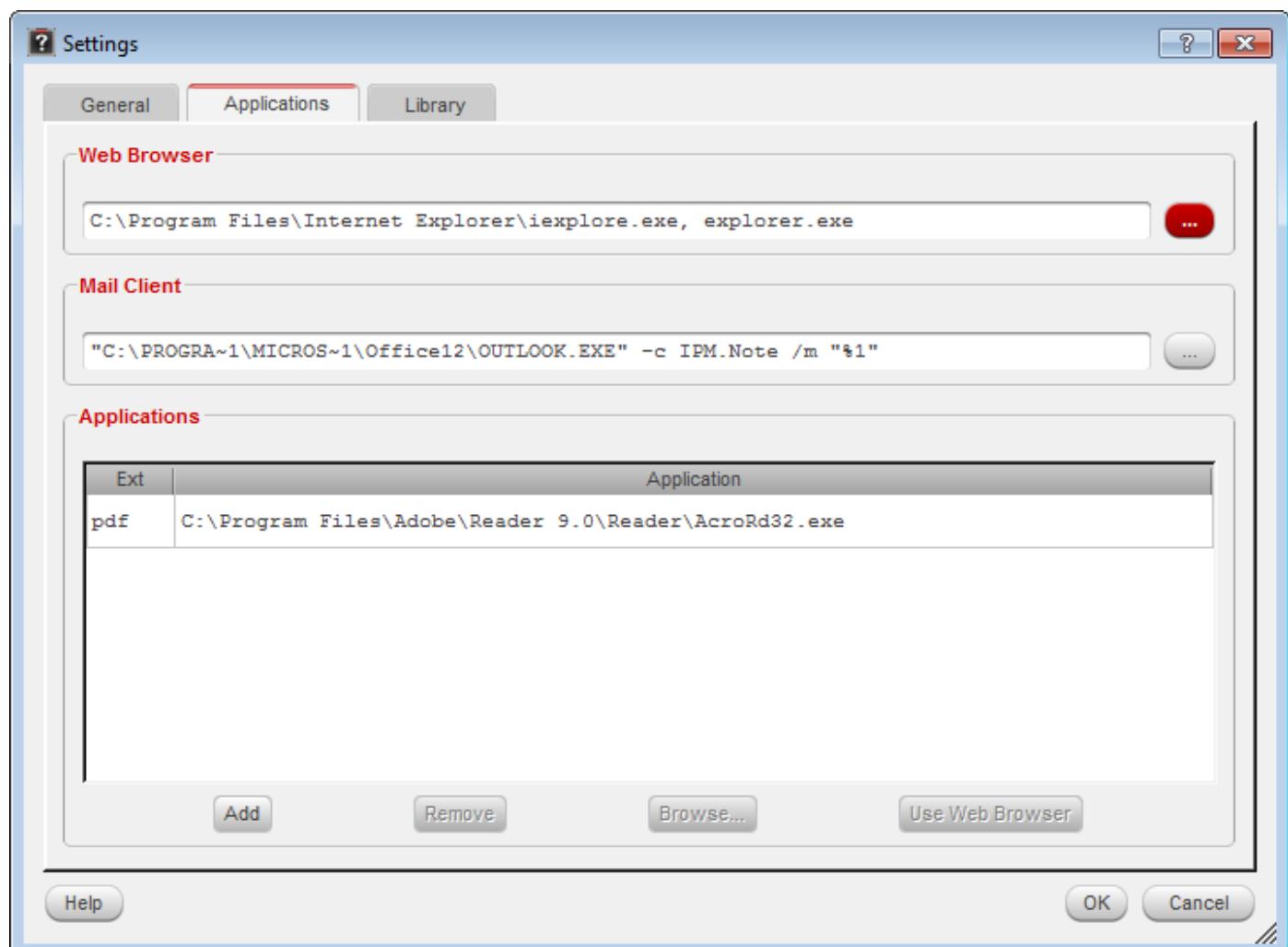
Always Expand Documentation	Keep the Documentation Browser in the <i>always expanded</i> mode.
Always Show Documentation Browser	Keep the Documentation Browser in the <i>always visible</i> mode.

Search Results

Allows you to specify the number of search results to be displayed per page.

Default: 100

Applications Settings



You can use the *Applications* tab to specify a Web browser, specify a mail client, and associate applications to different file types.

Web Browser

You need to specify a Web browser to open HTTP URLs. To specify a Web browser:

1. Specify the path to the Web browser in the *Web Browser* box.
2. Click *OK*.

Mail Client

Specifies the default mail client. You can browse and select the mail client application that you want to see as the default.

Applications

To associate an application to a file type:

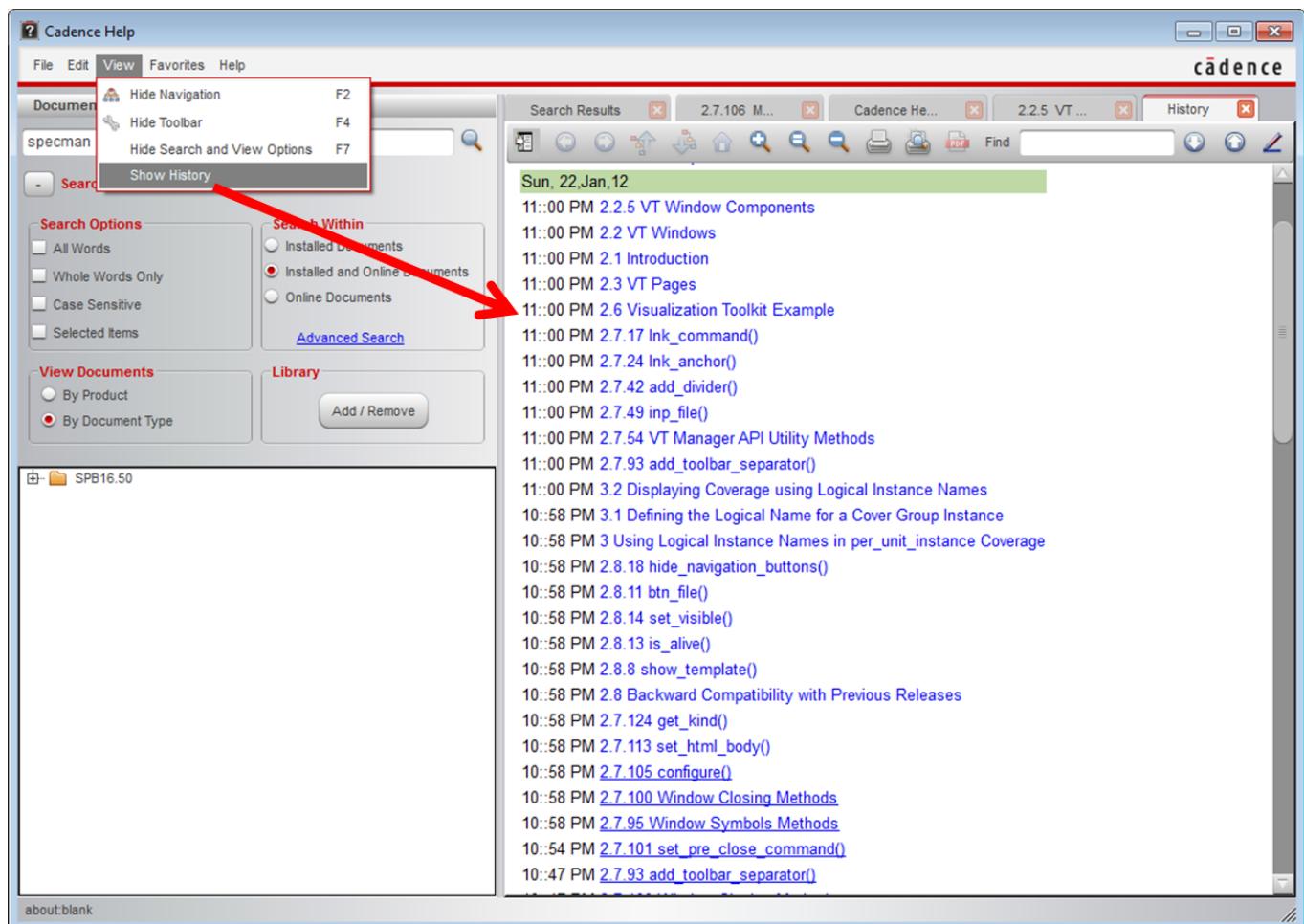
1. Click *Add*.
2. Type the extension for the file type in the *Ext* field. For example, type `txt` for text files.
3. Add the path to the application to open the specified file type.
4. Click *OK* to confirm.
To associate the user-defined Web browser with the specified extension:
5. Click *Add*.
6. Type the extension for the file type in the *Ext* field. For example, type `txt` for text files.
7. Click *Use Web Browser*.
8. Click *OK* to confirm.

Library Settings

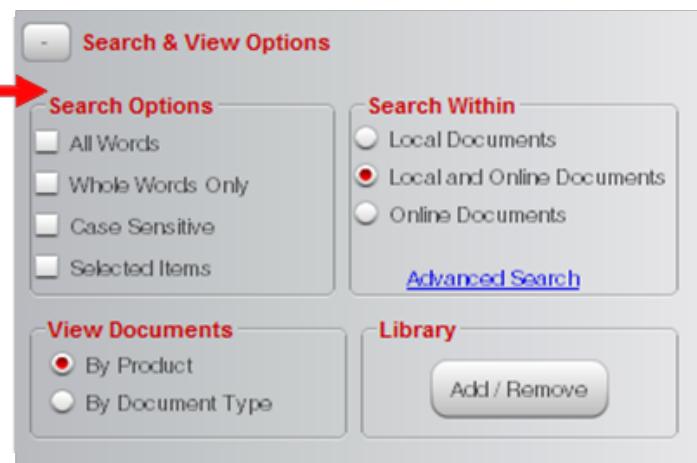
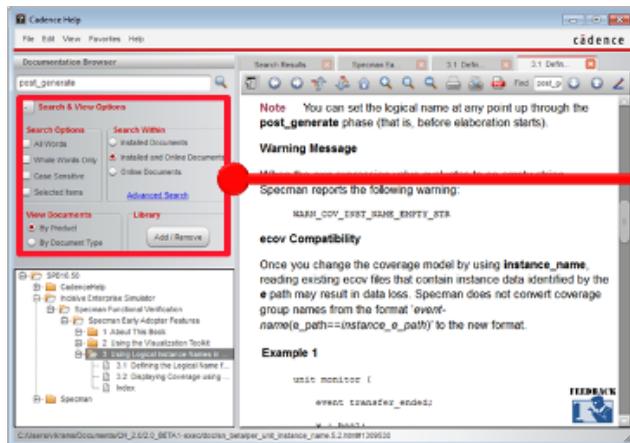
You can use the *Library* tab to modify the [library settings](#).

Show History

You can select *View – Show History* from the menu bar to view your Cadence Help browsing history. The browsing history opens as a separate tab in the Topic Viewer. You can select *Edit – Clear History* to delete your browsing history.



Search and View Options



Search Options

All Words	Search for all the words provided in the search text box, including the substrings, irrespective of the order in which the words appear. For example, if you type ncvlog ncsc in the search text box, the search results will include all the documents containing both ncvlog and ncsc in any order. Also, if you search for retain, the search results will include retain_state and get_retain_state, in addition to retain.
Whole Words Only	Search for the exact words included in the search query. For example, if you search for exp, you will not get the results for expression.
Case Sensitive	Perform a case-sensitive search.
Selected Items	Search only those items that are selected in the documentation hierarchy. To select multiple items, hold down the Ctrl key and select additional items.

Search Within

Local Documents	Search within the product documentation available on your machine.
Local and Online Documents	Search the latest version of product documentation available online, as well as the documentation available on your machine.
Online	Search the latest version of product documentation available online.

Documents

View Documents

By Product	Sort documents in the documentation browser according to the type of product.
By Document Type	Sort documents in the documentation browser according to the type of document.

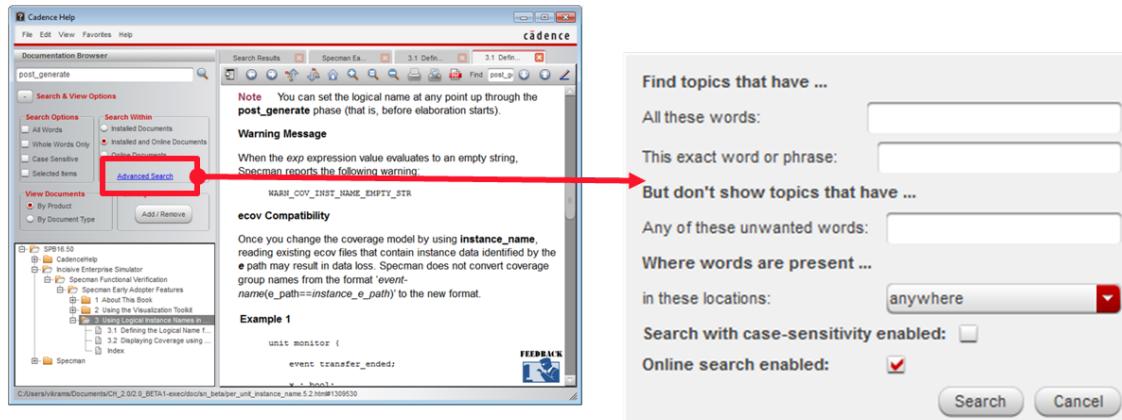
Show History

The [show history](#) feature enables you to revisit the topics you had opened recently.

Sort Search Results

You can [sort](#) the search results, depending on your requirements.

Advanced Search Options



All these words	Search for topics that include all the specified words. For example, if you type config and then press the Search button, the results will not only show the topics that contain config, but also the topics that contain configure, configure_debugger, show_configure_gen, and other such words that include config .
The exact word or phrase	Search for topics carrying the exact word or phrase you have specified. For example, if you type config and then press the Search button, the search results will show only those topics where the word config is mentioned. Words such as configure, configure_debugger, and show_configure_gen will not be displayed.
Any of	Search for topics that do not contain a particular word or phrase. For example,

these unwanted words	you can specify that you do not want the word timing to be included in the search results.
In these locations	Search for topics that include the specified words anywhere in the text, or in the titles, or as keywords.
Search with case-sensitive enabled	Perform a case-sensitive search.
Online search enabled	Search the latest version of documents available online.

How Search Works

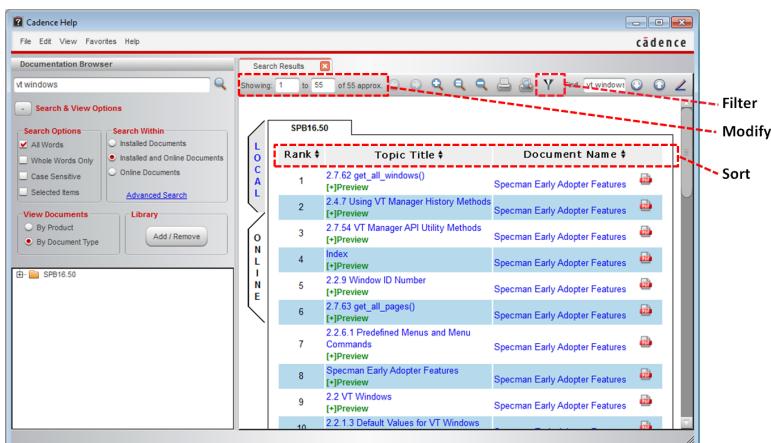
Cadence Help uses CLucene, an Open Source search engine, to search the installed libraries. For this purpose, a search index is created for all the documents in the libraries.

Cadence Help ranks search results on the basis of HTML tags such as keywords, syntax, and descriptions, and also on the basis of heading tags, ensuring that the more relevant search results are displayed towards the top. The search is simultaneously performed on three fields by default:

- Text: Includes topic titles, as visible in the Documentation Browser.
- Headings: Includes the terms found within `<h1>`, `<h2>`, `<h3>`, and `<h4>` HTML tags.
- Content: Includes all the terms found in a topic.

Since the first two fields are much smaller compared to the third one, the terms included in those are more significant when calculating the overall rank of a topic.

Sorting Search Results



Sort	Sort the search results by rank, topic title, and document name.
-------------	--

Modify	Modify the number of search results visible per page.
Filter	Filter the manuals you want to be displayed in the search results.

 The *Sort* feature is not available on the AIX platform.

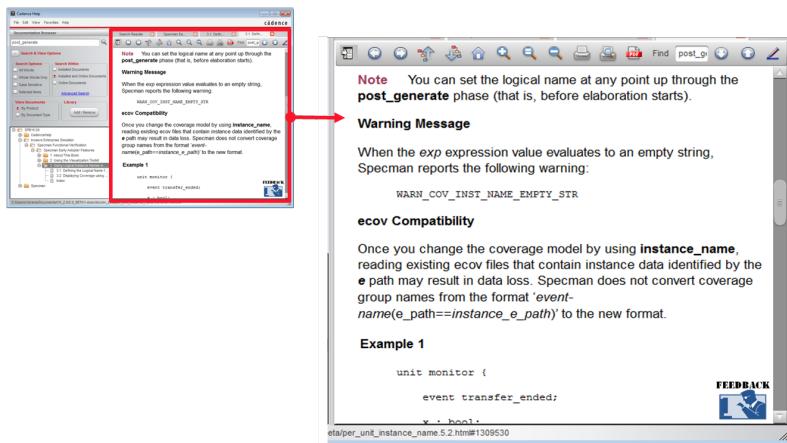
Topic Toolbar



The Topic Toolbar contains various features that enhance your search and viewing experience. You can use the Topic Toolbar to:

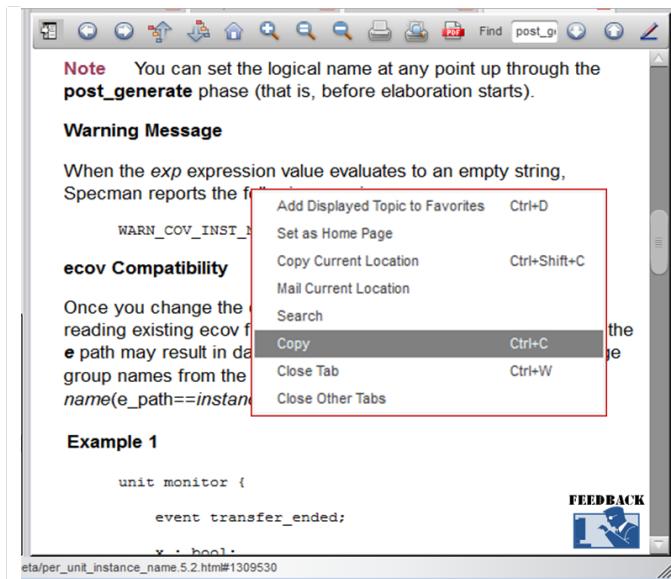
	Show/Hide Documentation Browser
	Move between pages
	Move between the topics
	Open home page
	Zoom
	Print/Print Preview
	View PDF
	Look for a term in the displayed topic
	Move between different instances of the term that you looked for
	Highlight all instances of the term that you looked for

Topic Viewer



The Topic Viewer enables you to view the search results as well as the help documentation. You can enhance your viewing experience, using the features provided by the [Topic Toolbar](#).

Right-Click Options



You can right-click a topic in the Topic Viewer to:

- Add the topic to favorites
- Set the topic as Home Page
- Copy the displayed location
- Mail the displayed location
- Perform a search for the selected content

- Copy the selected content
- Close the current tab
- Close various other tabs
- Copy or save an image (This option is activated only when you right-click over an image)
- Open a link in a new tab or new window (This option is activated only when you right-click over a link)

Working with Documents

You can [add PDFs](#), [add HTMLs](#), [import documents](#), [export documents](#), and [configure documents](#).

Adding HTML

To add an HTML to Cadence Help:

1. Create a doc directory either in your home directory or in <install_dir>/local/doc.
2. In the doc directory, create a subdirectory. The name of this subdirectory must be the same as the name of the document that is being added. For example, if the name of the document is bookname, then the directory should be named bookname.
3. Prepare the HTML document with the right set of metadata. For details, refer [Adding Meta Tags to HTML Documents](#).
4. Create a booknameTOC.html file with the right set of metadata.
5. Place the HTML document that you prepared and the booknameTOC.html file in the bookname directory.
6. Open the booknameTOC.html file in an editor and add the following metadata:
<Meta Name="Product" Value="Name that you want to see in CDNSHelp">
For example, if you are adding docs specific to your organization, Acme Inc, the metadata will be <Meta Name="Product" Value="Acme Docs">.
7. For registering new content with Cadence Help, run the command:
`cdnshelp -refresh`
Note: Before running the command, ensure that path in the *Path to docs* field is correct and that you have write permissions on the specified directory.
8. Click Go.
9. Click OK.
10. Select *Edit - Settings - Library*, click Add, and then browse to the doc directory created in step 1.
11. In the doc directory, open the xmlreg directory and select library.lbr. Cadence Help window appears.

Adding Meta Tags to HTML Documents

You need to add the following meta tags to the <HEAD> section of the documents you want to list in Cadence Help:

<code><META NAME="DocType" CONTENT="Manual"></code>	<i>Required:</i> Identifies that this is a manual (and not a Cadence Known Problems and Solutions or Product Note document)
<code><META NAME="DocTitle"</code>	<i>Required:</i> Specifies the name of the document as listed under the manual heading in the Cadence Help window.

<code>CONTENT="} }My Manual Name{{></code>	
<code><META NAME="FileTitle" CONTENT=" Table of Contents "></code>	<i>Optional:</i> Specifies the name of this file.
<code><META NAME="Product" CONTENT=" Product Name "></code>	<i>Required:</i> Specifies the name of the product that will appear for this book when you expand products in the Cadence Help window.
<code><META NAME="FileType" CONTENT="TOC"></code>	<i>Optional:</i> Specifies the file as a Table of Contents or Chapter.
<code><META NAME="ProductFamily" CONTENT=" Cadence Product Family Name "></code>	<i>Optional:</i> Specifies the Cadence Product Family under which this document will appear when you expand platform in the documentation browser.
<code><META NAME="Group" CONTENT=" Group Name "></code>	<i>Optional:</i> Specifies the group under which the book will appear (within a product) in Cadence Help window. In case the group is not specified, the books will appear under their respective products.
<code><META NAME="Order" CONTENT=" 1 "></code>	<i>Optional:</i> Specifies the order in which the book will appear (within a group or Product) in Cadence Help window. In case the order is not specified, the books will appear in the alphabetical order.

Adding PDF

To add a PDF to Cadence Help:

1. Close the Cadence Help window, if open.
2. Open `install_dir/doc`.
3. Create a subdirectory within the doc directory, and add the PDF to this subdirectory.
4. Go to foolabs.com and download the xpdf precompiled binaries specific to your platform.



At present the precompiled binaries are available only for Linux, Solaris, and Windows platforms.

5. Copy the xpdf executable file to a location which is in PATH. For example, on Windows XP, copy the file to C:\WINDOWS\system32 .
6. Run the command: cdnshelp -refresh .
7. An alert (CDNSHLP-042) appears. Click Yes to continue.
8. The *Configure Cadence Help* dialog box appears. Click Go. After completion, click Ok.
9. Under the Documentation Browser, locate the directory named PDF, containing the subdirectory you had created. You can find the newly added PDF within this subdirectory.

Configuring Documents

If you have added Cadence Help compatible documentation in your \$HOME/doc directory, Cadence Help automatically detects the documentation upon launch, and prompts you to configure and add it to the Cadence Help documentation browser.

You can click *File – Configure Home Documents* to add the new documentation in your \$HOME to Cadence Help.

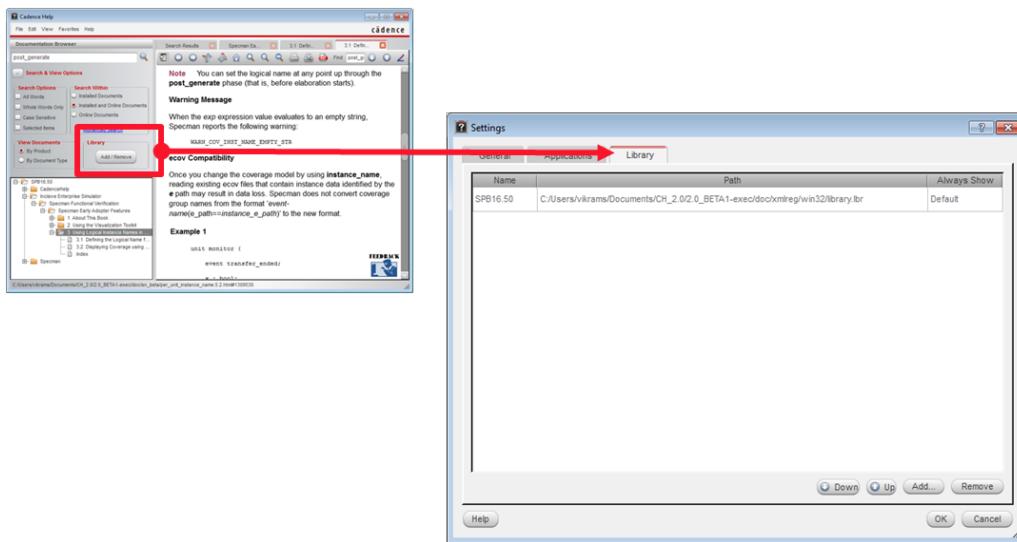
Indexing

In case you have added new content to an existing html page, Cadence Help will automatically update the index in next invocation of Cadence Help. In case you have added new books or html files, the library files will have to be regenerated using the cdnshelp -refresh command. This will also recreate the search index.

To know more about how to add a new PDF or HTML to Cadence Help, refer [Adding PDF](#) or [Adding HTML](#).

By default, the index gets stored in the \$HOME/.config/cadence/docindex. You can modify the location of the index file by setting the CDNSHELP_HOME environment variable.

Working with Libraries



A library in Cadence Help refers to the set of documentation for all products installed at a single location. The default library for Cadence Help is the library corresponding to the location where Cadence Help is installed. You can click the *Library Add/Remove* button from the Cadence Help window to open the *Library Settings* tab, using which you can add or remove a library, alter the position of a library, and hide or show a library.

Add a library	Click Add... and browse to the doc directory under the installation directory. Typically, the location of the doc directory will be: <installation_dir>\doc. Then, select the doc directory and press Choose . The name of the new library will appear in the list of added libraries.
Remove a library	Select the library you want to remove and then press Remove .
Move a library	To move a library up or down in the doc hierarchy displayed in the Documentation Browser, select the library and press Up or Down .
Show/Hide a library	Select the library and check or uncheck the <i>Always Show</i> check box. Note that you cannot hide the default library.

You can also:

[Configure libraries from other locations](#)

[View libraries from other locations](#)

[Add PDF to a library](#)

[Add HTML to a library](#)

Configuring Libraries from Other Locations

Libraries from other locations can be configured to make them visible to those who are accessing Cadence Help from a particular location. For this, you need to create a `help.ini` file at the location:

`<inst_dir>/tools.<port>/cdnshelp/config/`

The content of this `help.ini` file will be:

`[library]`

Path of Library 1 (For example: `/home/usr1/cadence/IC611/doc/xmlreg/library.lbr`)

Path of Library 2 (For example: `/icd/flow/EDI/EDI111/11.11-d575_1/lnx86/doc/xmlreg/lnx86/library.lbr`)

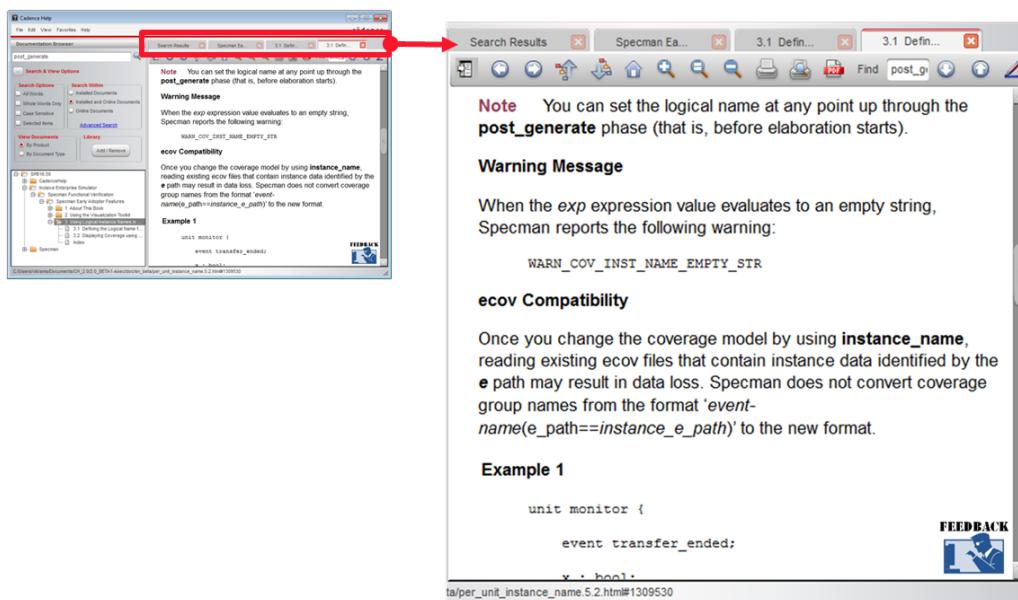
Path of Library 3 (For example: `/servers/etstore2/et/setup/111/ET111101.2012-01-21/lnx86/doc/xmlreg/lnx86/library.lbr`)

Viewing Libraries from Other Locations

To view a library from another location:

1. Choose *File – Open – Library* to open the *Open Alternative Library* window.
2. Select the `.lbr` file from the location `<installation_dir>/doc/xmlreg` and click *Open*.

Working with Tabs



Each topic that you click from the Search Results page opens as a separate tab. To open a topic from the Documentation Browser or a link from the displayed topic as a separate tab, right-click and select the *Open in New Tab* option.

Providing Feedback

You can right-click and use the feedback option to provide documentation-related feedback.

Sharing Documents

Cadence Help enables you to share documents with other users. You can right-click and select the *Mail Current Location* option on the current page to email the path to that page to another user. The other user, who should have access to the library containing that page, can then enter the path in the Cadence Help search window and view the page.

Troubleshooting

- [Debugging Cadence Help](#)
- [Improving display quality in Solaris](#)
- [Moving documents from UNIX to Windows](#)
- [Opening custom help forms in Cadence Help](#)
- [Printing in Solaris](#)
- [Topics not displayed in documentation browser](#)
- [Using Cascading Style Sheets](#)
- [Viewing Multimedia Flash Files](#)
- [Working with Tag Files](#)

Debugging Cadence Help

You can set the CDNSHELP_API_DEBUG and CDNSHELP_DEBUG environment variables to debug Cadence Help. To log API-specific information, set CDNSHELP_API_DEBUG to debug. When this is set, the debug information is written to the apilog.txt file in the \$HOME/.config/cadence directory. To log information other than API-specific issues, set CDNSHELP_DEBUG to debug. When this is set, the debug information is written to the logger.txt file in the \$HOME/.config/cadence directory.



You can change the location of the logs by setting the CDNSHELP_HOME environment variable

Improving display quality in Solaris

The display quality in Solaris systems depends on the settings specified for your system. With CDE or GNOME, you can start the Window system in the 24-bit mode by adding the following to the end of the /usr/dt/config/Xservers file or /etc/dt/config/Xservers file:

-dev /dev/fb defdepth 24.

However, you need root access to change this file. You can request your system administrator to change the file if you do not have permissions.

Moving documents from UNIX to Windows

You can move the documents from UNIX to Windows in the following ways:

- By using the [export](#) and [import](#) features.
- By copying the doc directory from Cadence Help UNIX installation to Cadence Help Windows installation and then running the cdnshelp -r command to launch Cadence

Help on Windows.

- By mapping the UNIX drive to Windows. After this you can view the documents using the [library](#) feature.

Opening custom help forms in Cadence Help

If you create your own SKILL GUI objects (forms and windows) to work with Cadence tools, you may want to include the related help documents in Cadence Help. You can do so by:

- Setting an application name and a help tagname for your window or form.
- Creating a local document directory, `install_dir/local/doc`.
- Creating your help document HTML file in the `local/doc` directory.
- Creating the tag file (`.tgc`) that maps your application name and your GUI object's tagname to the help document file in the `local/doc` directory.

The details are:

1. Set an application name and a tagname for your GUI object. These names are passed by your tool to Cadence Help, and used to look up the document to be opened.

Example 1: Your SKILL code for a graphics window could include something like the following:

```
hiCreateWindow( 'default "graphics" "myApp" "myWindowTag" )
```

In this example, `myApp` is your application name, and `myWindowTag` is the tagname for this window.

Example 2: Your SKILL code for a form could include something like the following:

```
hiCreateAppForm( ?help '( "myApp" "myFormTag" )
```

```
... )
```

In this example, `myApp` is your application name, and `myFormTag` is the tagname for this form.

2. Create an `install_dir/local/doc` directory to hold your document files, where `install_dir` is the directory where you installed Cadence software.

Cadence Help looks in `install_dir/local/doc` for document files before it goes on to the `install_dir/doc` directory where books from Cadence are installed.

3. Create your HTML documentation file(s) and save them in a directory in `local/doc`.

For example, you might create `local/doc/myDocument/myDocument.html`

Optional: If you want a Help button to open your HTML document at a specific spot, place an ` ` anchor in the HTML code at that spot.

 If your document resides in `local/doc`, you can also add tags to your HTML document so that it appears in the Documentation Browser.

4. Create a directory in `local/doc` that matches your tool application name.

To continue the previous examples, you would create the directory: `local/doc/myApp`.

5. In your `local/doc/application_name` directory, create an `application_name.tgc` file. This is a simple ASCII file.

To continue the previous examples, you would create the ASCII file: local/doc/myApp/myApp.tgf.

6. In the .tgf file, include pointers that list each of your function tagnames and the path to the HTML file that you want to be opened when the user clicks Help.

Each line of a .tgf lists the following:

```
tagname path_to_document optional_anchorname filetype
```

Example 1: To link the previous example of a window function to the first page of your document, you would include this line in myApp.tgf:

```
myWindowTag $myDocument/myDocument.html "" HTML
```

The \$myDocument entry tells Cadence Help to look in the standard document directories for a directory named myDocument.

The "" indicates that there is no to jump to inside the myDocument.html file.

Example 2: To link the previous example of a form function to an anchor point named in your document, you would include this line in myApp.tgf:

```
myFormTag $myDocument/myDocument.html "myFormAnchor" HTML
```

Example 3: If you placed your documentation in a directory outside the Cadence hierarchy, then you must enter a full pathname to the directory, or a pathname relative to the install_dir/doc directory. If your document is located, for example, in /usr1/customDocs/myDocument, your .tgf entry might look like the following:

```
myFormTag /usr1/customDocs/myDocument/myDocument.html  
"myFormAnchor" HTML
```



The previous steps outline how you can create a document in install_dir/local/doc, readable by anyone using your Cadence installation. You can also create a document that can be viewed by you alone, in your \$HOME directory (on UNIX) or %userprofile%\doc directory (on Windows), rather than in local/doc. The argument used to point to this directory in the .tgf, \$dirname, is the same in either case.

Printing in Solaris

Each operating system manages printers in a different way. For example, Linux uses the CUPS protocol to set up and manage printers on the network. Cadence Help looks in /etc/printcap to find available printers. Cadence Help, on all systems, adds and manages printers in ways similar to other standard applications, such as browsers and text editors.

You can manage printers by using the printconf command if you have root privileges. You can also modify the /etc/printcap.local file to add printers if you have write permission. You can also set the LPDEST environment variable on Solaris systems to add a printer. For example, to add a printer uspr01, you can use the following command:

```
LPDEST=uspr01; export LPDEST
```

If you are a csh user, use the following command:

```
setenv LPDEST uspr01
```

For the printer to appear in the list of available printers in Cadence Help, you will need to update the `.printers` file in your `$HOME` area.

Edit the `.printers` file by adding an entry as shown in the example below:

```
uspr01:_default
```

- i** The entry in the `.printers` file must be in the `<printer_name>:_default` format if it is to appear as an available printer in the Print dialog box of Cadence Help.

Topics not displayed in documentation browser

The documentation browser displays only those topics for which the corresponding XML files are available. Use the `cdnshelp -refresh` command to generate the XML files.

Using Cascading Style Sheets

Cadence Help supports CSS. You can use CSS within the HTML files or link to external .css files.

The following table lists the CSS properties supported by Cadence Help:

background-color	<color>	Background color for elements
background-image	<uri>	Background image for elements
color	<color>	Text foreground color
font-family	<family name>	Font family name
font-size	[small medium large x-large xx-large] <size>pt <size>px	Font size relative to the document font, or specified in points or pixels
font-style	[normal italic oblique]	
font-weight	[normal bold 100 200 300 400 500 600 700 800 900]	Specifies the font weight used for text.
text-decoration	none [underline overline line-through]	Additional text effects

font	[[<'font-style'> <'font-weight'>]? <'font-size'> <'font-family'>]	Font shorthand property
text-indent	<length>px	First line text indentation in pixels
white-space	normal pre nowrap pre-wrap	Declares how whitespace in HTML is handled.
margin-top	<length>px	Top paragraph margin in pixels
margin-bottom	<length>px	Bottom paragraph margin in pixels
margin-left	<length>px	Left paragraph margin in pixels
margin-right	<length>px	Right paragraph margin in pixels
vertical-alignment	baseline sub super	Vertical text alignment
background	[<'background-color'> <'background-image'>]	Background shorthand property
page-break-before	[auto always]	Make it possible to enforce a page break before the paragraph/table
page-break-after	[auto always]	Make it possible to enforce a page break after the paragraph/table

CSS Selectors Supported by Cadence Help

All CSS 2.1 selector classes are supported except pseudo-class selectors such as :first-child, :visited, and :hover.

Referencing CSS Within HTML

Although Cadence Help recognizes CSS markups in uppercase, when calling CSS markups within HTML, the class name needs to be in lowercase. The HTML element tag can be in uppercase, lowercase, or mixed case. For example, the following CSS definition

```
div.inlinerelatedtopics
{}
margin-top: 8px;
```

```
margin-bottom: 4px;  
{}}
```

can be called in HTML as:

```
<DIV>
```

Viewing Multimedia Flash Files

Cadence Help runs multimedia files in the browser specified in the [Settings](#) menu. You might need to download and install a Flash player to enable the browser to run multimedia files.

Working with Tag Files

Applications that display help in Cadence Help use a .tgf file to identify which file to open depending on the Help button that is clicked. The .tgf file points to documents. You need to modify the .tgf file and your documents so you can point a Help button to your custom documents. Each line of a .tgf file lists the following:

```
tagname docpath pathname filetype [version]
```

- tagname is a string output by the Cadence application when the user clicks a particular *Help* button.
- docpath is the path to and the name of the file to open when the *Help* button is clicked.
- If the path begins with a forward slash (/), it is an absolute path.
- If the path begins with the dollar symbol (\$), Cadence Help looks for the document at the following locations sequentially:
`install_dir/doc/name`
`install_dir/local/doc/name`
`$HOME/doc/name`

Cadence Help looks for a matching name/nameTOC.html file with a specific HTML META value to make certain that the directory name includes a Cadence Help manual.

- If the path does not have a slash or dollar symbol, it is relative to the doc/ manualdir path containing this .tgf file.
- pathname is the text of the HTML <A NAME> anchor to which Cadence Help jumps. In HTML, the syntax of an <A NAME> anchor is as follows:
`text to be marked with anchor`
where uniqueID is any text string that identifies this part of the HTML.
- filetype gives the file format of the document. Valid file types:
HTML (for HTML files used by Cadence Help)
- version is an optional version string. This is only included if the same tag file is used when two forms for this application pass identical tagnames but different version strings. For non-DFII products, the tag file usually begins with a DEFAULT line. If the requested filename is not found, the DEFAULT entry will be used.

A sample tag file:

```
DEFAULT myBookTOC.html NULL HTML
CreatePinForm chap1.html "createpin" HTML
CloseCell $dfref/chap3.html "closecell" HTML 4.6
User Guide $cdnshelp/cdnshelpTOC.html NULL MENU
```

- The first line lists a default document file (`myBookTOC.html`, a table of contents file) that is opened if the Cadence tool passes a string that is not listed in this tagfile. Its path is the same as the tag file's directory.
- If the application passes the tagname `CreatePinForm`, Cadence Help opens the file `chap1.html` in the tag file's directory, then jumps to the `<A NAME>` anchor with the string `createpin`.
- If the application passes the tagname `CloseCell` with version number 4.6, Cadence Help opens the file `chap3.html` in the directory `~/doc/dfref`, or `local/doc/dfref`, or `doc/dfref` in that order. Cadence Help jumps to the `<A NAME>` anchor with the string `CloseCell`.
- If the application passes the tagname `User Guide`, Cadence Help opens the TOC file for itself, which lists all the documents so the user can pick one.

Determining whether your application has a tag file

Different families of Cadence applications have different methods for identifying their help tag file. For most applications, the help tag file is in the same directory as the document. To find the help tag file, look in the document's directory for a file named `manualname.tgf`.

For example, the tag file for the Library Manager document is
`doc/libManager/libManager.tgf`

For most (but not all) Design Framework II® applications, the help tag file will be named
`doc/helpAppID/helpAppID.tgf`

The `helpAppID` is usually different from the document directory name, and in most cases the `doc/helpAppID` directory contains only the help tag file. The document itself is in another directory.

How Cadence applications find tag files

A few Design Framework II applications and all other Cadence applications that use a tag file find it by doing the following:

The application searches for the document directory (or a subdirectory containing that directory) in your doc hierarchy, in the following order:

- `install_dir/doc`
- `install_dir/local/doc`
- `$HOME/doc` or `%userprofile%\doc` (Windows)

Most Design Framework II applications find their help tag file by doing the following:

1. The application determines which help application ID, and therefore which tag file, to search first.

2. The application searches for the helpAppID/helpAppID.tgf file in the following order:
 - install_dir/doc
 - install_dir/local/doc
 - \$HOME/doc or %userprofile%\doc(Windows)

3. If there is a match, the appropriate document page is displayed. If there is no match, the application continues to the next help application ID in the list.

DFII applications can be either a sub-application of a schematic or layout editor tool; or they can be an editor tool; or they can be part of the software framework itself. DFII help searches for help tags beginning with the most specific possible tag file and moving towards the default tag file, dfii.tgf. The list of application IDs to search is generally:

- sub_application.tgf : Information specific to the application.
- root_application.tgf : Information that is general for all applications under the current schematic or layout editor.
- dfii.tgf : Information that is general to all DFII tools.

Modifying a document and tag file

If you change a pointer in a .tgf to jump to a different anchor in the modified Cadence document or to a file you added to the Cadence hierarchy, you must:

- Add or change HTML anchors in the help files
- Find the help symbol used by the form or window to locate help files
- Edit the .tgf pointer file that maps help symbols to HTML anchors

The next sections describe these steps.

Adding or changing HTML anchors

Cadence applications find a page in a help document by looking for an <A NAME> element, called "anchor", in the HTML file.

If you create a new help file, add a new section, or change a section and remove the existing <A NAME> element, you must place an <A NAME> anchor on each section that you want to open from a Help button.

You may use any HTML editing program, including a text editor such as vi, to edit the HTML file and add, change, or move anchor elements. The syntax of an anchor is:

Text at beginning of section you want to jump to

where uniqueID is any text string unique to this NAME element.

Finding the form or window help symbol

The .tgf files map application help symbols to specific help filenames. Clicking on a Help button in that application passes the help symbol to a program that uses the tgf to look up the appropriate help file.

For all non-DFII and a few DFII applications, there is no specific mechanism for determining what help symbol is used for a specific window or form. You may want to look through the tag file

(. tgf) for the document used by that application to see which files are called. You may be able to tell, by looking at the section where an anchor is placed, which form or window jumps to that page. Then you can look for that document file and anchor name in the . tgf file.

If you have a DF II application, you may also use the following steps to determine what help symbols and .tgf files are used by a specific form or window.

1. Open the form or window whose help you want to customize.
2. Type the following in the Command Interpreter Window (CIW):
`helpDebug=t`
3. Click the form or window *Help* button.
4. You see a report similar to this:

```
hiHelp: help symbol = "WidgetEditor" Application ID =
"cadenceTool"
...hihelpLookupTag: appIDlist = (string) "cadenceTool" tagName
= (string) "WidgetEditor" objType = (symbol) form objName =
(symbol) helpSymbol quickHelpTag = (list) nil concatTagName =
(list) nilSearching for help symbol...Calling hiiObShowTag,
toolList = ("cadenceTool" "DFII"), tagName =
"WidgetEditor"calling obShowTag with tool "icctranslator", tag
"WidgetEditor" (version "")tag "WidgetEditor" found, document
was displayed."hiiObShowTag call succeeded"
```

Note: If the output you see is different, your product does not use `hiHelp()` to access online help.

In this example, `WidgetEditor` is the form help symbol. The tag file you must edit in this example is `/install_dir/doc/cadenceTool/cadenceTool.tgf`. (The debug output in the CIW does not show the filename so you must deduce the name from the application ID.)

 If `helpDebug()` never finds the symbol, you can edit any one of the tag files it searched and add the missing help symbol.

Editing the .tgf file

After you have created any new help files or sections and added <A NAME> anchors to those pages, you must edit the .tgf with your changed anchor and/or filenames.

1. Make a copy of the original .tgf file in your local hierarchy.

For example: you edited a copy of `doc/productA/chap1.html` in your `local/doc/productA` directory. This product uses a .tgf file. You would copy:
`cp doc/productA/productA.tgf local/doc/productA/productA.tgf`

 For some DFII products, the .tgf file will not be in the document directory but rather in a separate directory matching the help application ID.

2. Use a text editor such as vi to edit your copy of the .tgf file to point to your changed files.

- If you moved the document to /local and you changed the document's directory name, change any pointers to the document's files to begin with \$cdsLocalDoc/newDocDir.
- If you moved the document to your \$HOME and you changed the document's directory name, change any pointers to the files to begin with \$cdsHomeDoc/newDocDir.
- If you modified the name of a file or the <A NAME> anchors in a file, change the entries in the .tgc to refer to the changed filename or anchor string. Look for the help symbol name you found as described in Finding the form or window help symbol, and change the filename and/or anchor text for that help symbol as appropriate.

Missing or invalid entries in the .tgc file

If the entry in the .tgc cannot be found or does not exist, Cadence Help will launch the manualname.xml file that it finds in the document directory. This will load the Documentation Browser of Cadence Help for that document.



This will only occur if a DEFAULT tag is found in the .tgc file and it points to the manualname.xml file.

Cadence Help Known Problems and Solutions

CCR 523417: Unable to launch Cadence Help from more than one tool

Description: If the Cadence Help application is being used with one tool, it cannot be invoked from another tool.

Solution: You need to close the previous instance of Cadence Help to invoke a new instance.

CCR 890292: Print to PDF output is not clear

Description: When you use the Print to PDF option, the resulting output is not clearly visible.

Solution: The issue is being investigated. For now, please install CutePDF for Windows or CUPS-PDF for Linux.

CCR 914530: Clicking the Preview option anywhere on the Search Results page takes the user back to the beginning of the page (Non-Windows only)

Description: If the user clicks the Preview option anywhere on the Search Results page, the user is taken back to the beginning of the page.

Solution: The issue is being investigated.

CCR 1022825: New or updated content is not visible in search results

Description: I added a new section/manual in an existing document and invoked Cadence Help. However, the new content does not appear in the search results.

Solution: Allow the automatic indexing feature to update the search index for the section added. It may take time depending on the size of the documentation hierarchy. If you have added a new manual, then run the cdnshelp -refresh command.

CCR 1023435: Clicking a topic from the search results page sometimes opens the bottom of that page

Description: Sometimes when I click a topic from the search results page, I am taken to the bottom of that page, and not to the top.

Solution: The issue is being investigated.

CCR 1038407: On performing an online search for duplicate local hierarchies. two search online tabs of the same release appear in the search results

Description: When two documentation hierarchies of the same release are added to the Documentation Browser, two search online tabs of the same release appear in the Search results.

One of these tabs shows the online search results and the other tab gives you the "No items matching your query" message.

Solution: The issue is being investigated.

CCR 914888: Cadence online help issues with Pspice topics

Description: If a topic has multiple occurrences within a library in the Documentation Browser, clicking any occurrence synchronizes to the the first occurrence of the topic in the Documentation Browser.

Solution: The issue is being investigated.

CCR 1038406: Search Range: Non-numeric value handling is needed

Description: If you specify a non-numeric value in the search range fields to customize the number of results per page and press the Return key, then no results are returned and the value in the search range fields displays a negative value, -1.

Solution: Specify only numeric values while specifying a search range.

CCR 1038405: Using the *Open in New Window* command opens two windows

Description: Selecting a link in the topic viewer pane and then choosing the *Open in New Window* option opens two windows for the same topic.

Solution: The issue is being investigated.

CCR 1038402: Problem while opening topic-tagged online chapters

Description: While opening a topic-tagged chapter or moving to a topic (Using the Next/Previous button) from a topic-tagged chapter, the other (already open) tabs may appear toggling between disabled and enabled states. If you click another tab or search tab in the intermediate enabled state, then CadenceHelp may either exit unexpectedly or the last tab may appear blank.

Solution: The issue is being investigated.

CCR 01039115: In the 'Print Preview' only the first page appears (UNIX only)

Description: If you generate a print preview of a topic, then you may see only the first page of the topic. The rest of the pages will appear blank. However, if the first page of topic contains a table itself, then the print preview will be blank.

Solution: The issue is being investigated.

CCR 1038485: Print issues

Description: On UNIX, when you print a topic, the text at the bottom of the page may not get printed. On Windows, if the topic contains an image that extends the margin, then the image will get cropped if you print the topic.

Solution: The issue is being investigated.

CCR 1048712 : unc path access to library issue in windows

Description:

1. Add a library to CadenceHelp using the unc convention.
2. Search for some text and open a result page.
3. Click on any link in the page.
4. Return to the previous page.
5. Clicking on a link will not work.

Solution: Map the network path to a local drive and use this drive to add to the library list.