cādence®

Doc Assistant User Guide

Product Version 2.03
August 2023

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Introduction

Doc Assistant is a next-generation documentation viewing tool that lets you access the latest documents available online for all the Cadence products installed on your machine. Doc Assistant has a web application interface through which you can search and view locally installed and online documentation.

Doc Assistant displays documents organized by their document types.

Doc Assistant Features

- Provides access to the latest documents available online.

- Supports offline access to documents when the user is not connected to the Internet.

- Recommends content based on the content user is accessing.

- Provides customizable content views.

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Introduction to Doc Assistant

Doc Assistant operates in two modes, Online and Offline.

When Doc Assistant is launched, Online mode is enabled by default. All the online documents related to the products installed on your system are displayed.

You can switch to Offline mode using the toggle button in the hamburger ☰ menu. Offline mode displays all the product documentation available on your machine.

Launching Doc Assistant

You can launch Doc Assistant in one of the following ways:

- Windows systems: Choose *Doc Assistant* from the *Start* menu.

- Linux systems: Enter the `CDA` command in the terminal.

- Product's *Help* menu

- Product's *Help* buttons

When you launch Doc Assistant in standalone mode, a message box is displayed that lists all products for which documents are configured to be displayed on your machine.

Product Selection Information ✕

INFO (GUI-010): Doc Assistant is configured to display the documentation for release **"IC231"** for the following products:

Virtuoso Layout Suite, Xcelium, Virtuoso Schematic Editor, Virtuoso Analog Design Environment, Spectre, AMS Designer, Cadence Shared Tools, Doc Assistant, Spectre RF, UltraSim, Installation and Licensing, Innovus, Cross-Platform Solutions, Virtuoso Power System, Voltus-Fi, Languages, Pegasus, Physical Verification System – PVS, Cadence Physical Verification System, Voltus XFi

Documentation for additional products might also be displayed depending on the licenses you own. You can select or deselect a product from the My Products ⓟ button on the home page.

☑ Show on Startup   OK

To customize this list, see My Products. To turn off this notification either clear the *Show on Startup* check box in the above message box or clear the *Show Product Selection Information on Startup* checkbox in the Doc Assistant *Settings* page.

On closing the above message box, the *Doc Assistant Home* page is displayed. This page allows you to start searching from the search bar or access content for the products installed on your machine from the various tiles.

> ⓘ To make Doc Assistant the default documentation tool for all help calls, set the value of the CDA_ENABLE environment variable to `true`. This is useful when both Cadence Help and Doc Assistant are installed and Cadence Help is the default help viewer.
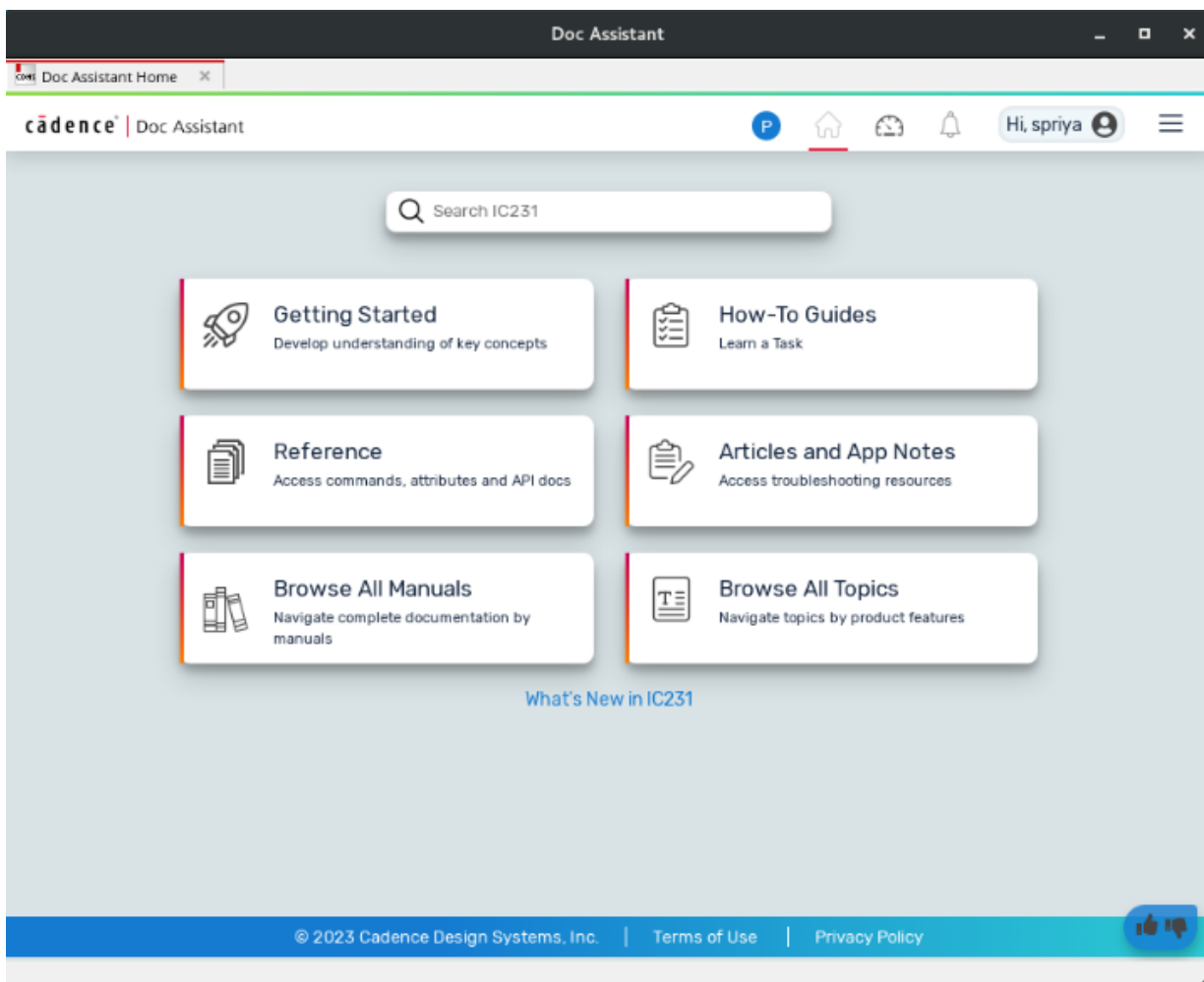
> ⓘ In case your tool's installation and Doc Assistant installation are in different directories, set the CDA_EXE_CUSTOM_PATH environment variable to point to the directory where Doc Assistant is installed.
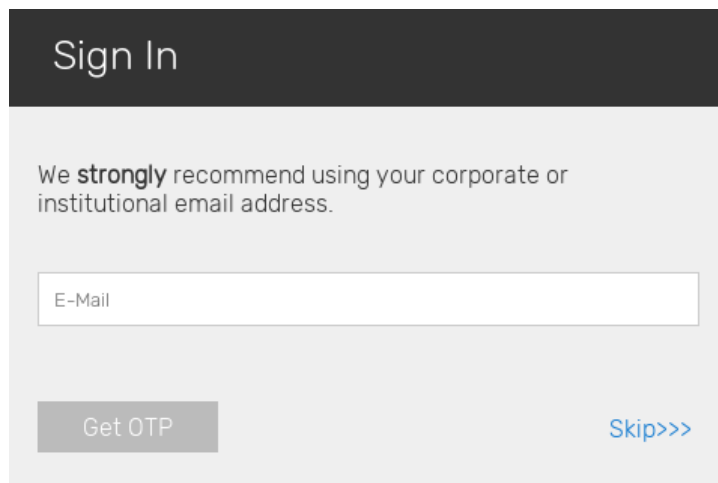
> ⓘ Doc Assistant on Windows Machines - Launching from a Network Drive
> On Windows machines, due to security reasons, Doc Assistant does not launch from network drives. However, you can set the environment variable QTWEBENGINE_DISABLE_SANDBOX=1 to launch Doc Assistant from a network drive.

Signing In To Doc Assistant
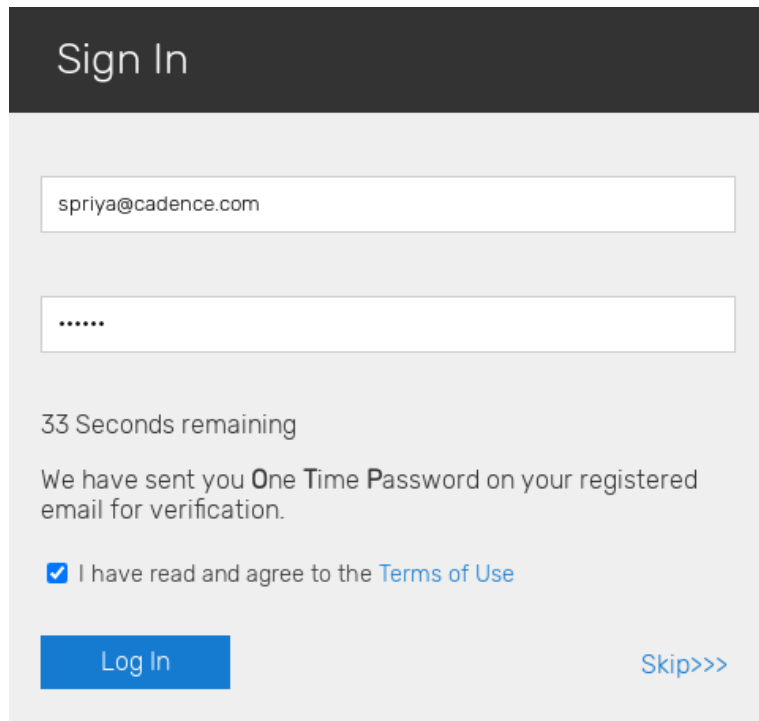
When in Online Documentation mode, you can sign in to Doc Assistant using your email ID. This helps you to personalize Doc Assistant settings.

To sign in to Doc Assistant:

1. Click the *Sign In* (➡) icon on the top of the menu bar.

2. Type your email address in the *E-Mail* field.

3. Click *Get OTP*.
   An OTP is sent on your Email ID.

4. Enter the OTP that you receive on your email ID in the OTP field within 60 seconds. In case of any delay, click *Skip* to return to the home page and wait for 60 seconds before signing in.

5. Select the *I have read and agree to the Terms of Use* check box and click *Log In*.

You are signed into Doc Assistant.

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Doc Assistant User Interface

The Doc Assistant user interface is simple. Documents are categorized based on their types, as shown below.
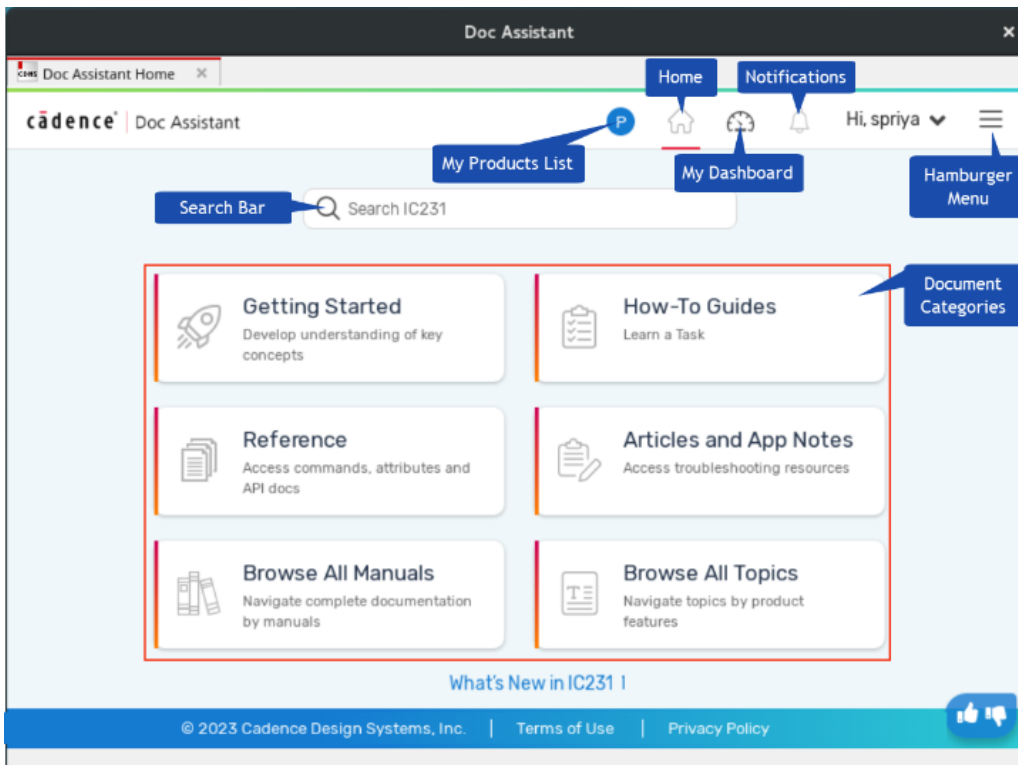
Search Bar

Lets you search for documentation in both, online and offline modes. See Searching Through Content.

My Products List

Displays a list of products installed on your machine. Selecting or deselecting products from this list will change the order in which content appears on the welcome page. See My Products.
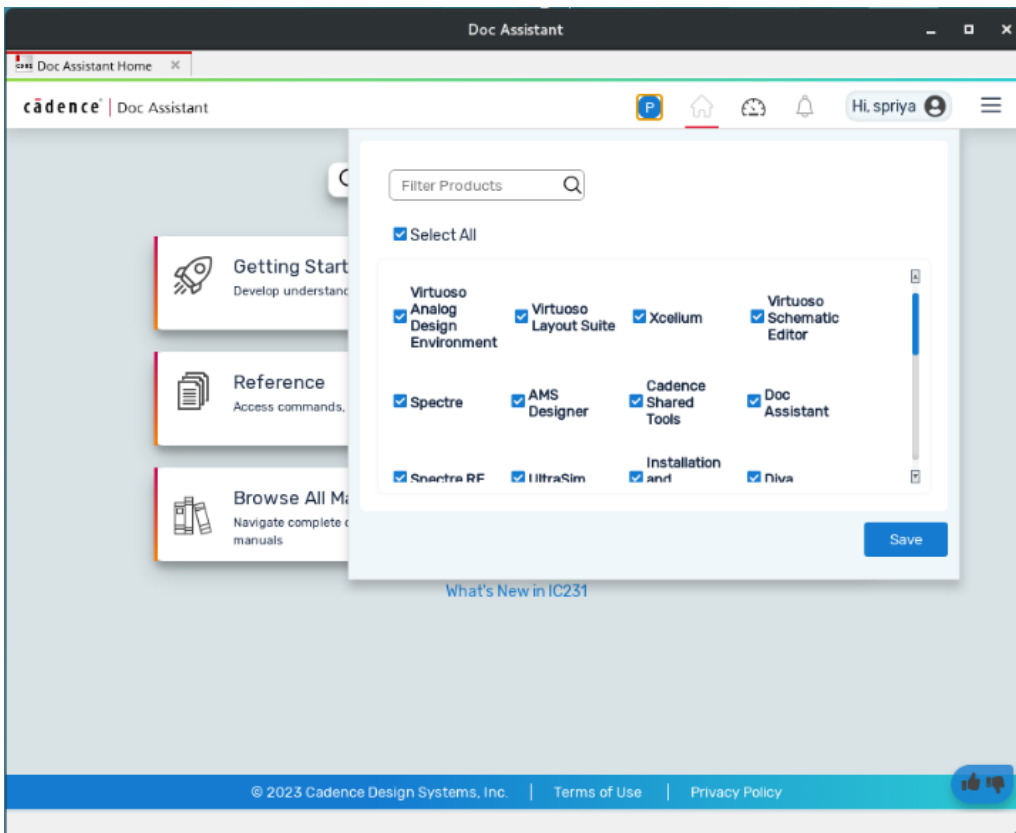
Home ⌂

Takes you to the welcome page, where you can search or view documents for products installed on your machine.

My Dashboard

Lets you access recently visited topics and bookmarked page. You can also add more document libraries, change the Doc Assistant settings, and install the latest product documents from this page. See My Dashboard.
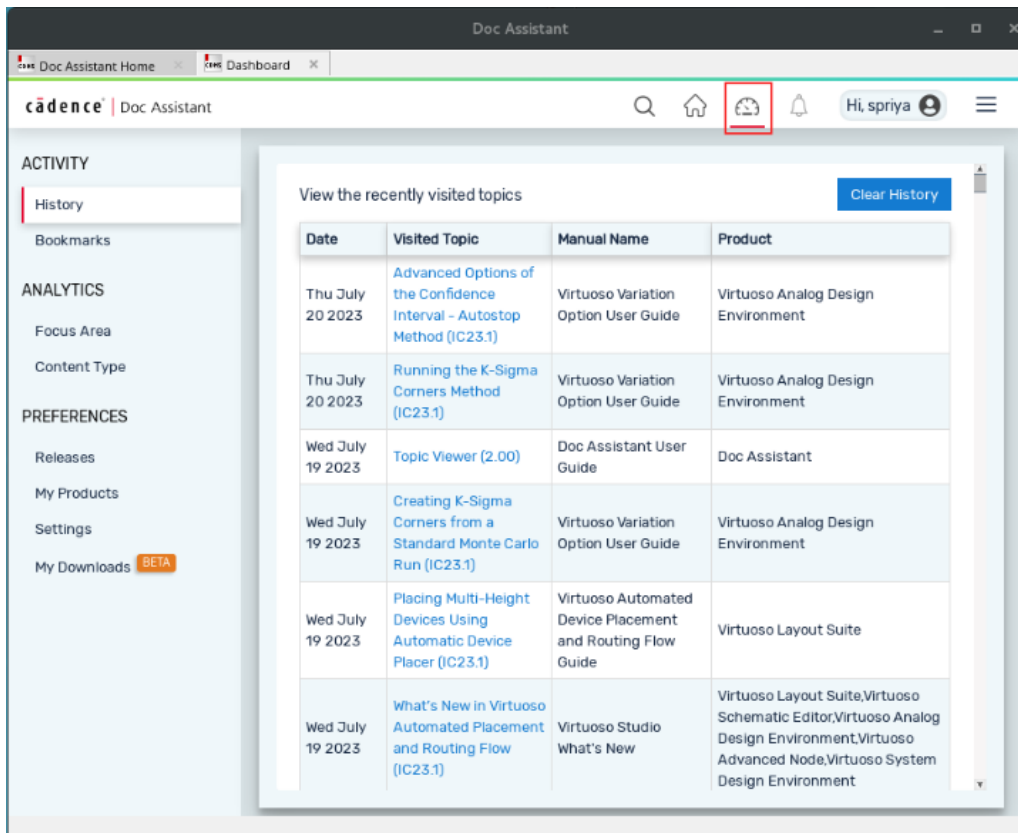
Hamburger Menu ☰

Allows you to switch between Doc Assistant modes, change settings, close all tabs, and do much more.

Help ⑦
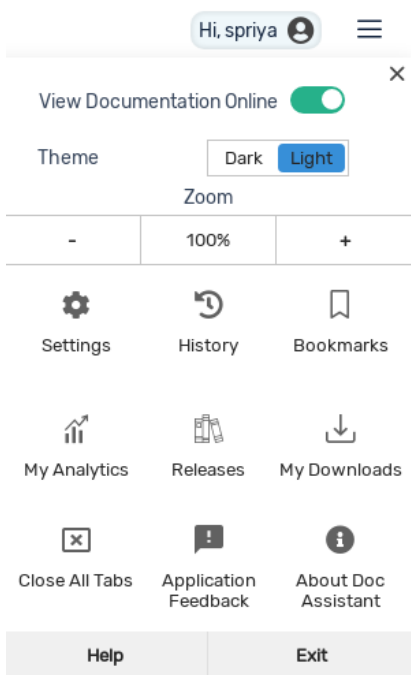
Opens the Doc Assistant Help documentation.

Notifications 🔔

Displays notifications about important occurrences, including errors, warnings, information, and success messages.

Document Categories

The Doc Assistant home page lists multiple tiles that indicate various topic types or document categories, for example conceptual topics, task-based topics, and reference topics. You can click a tile to display a list of topics. In the following example, all task-based topics (How-To Guides) is listed:
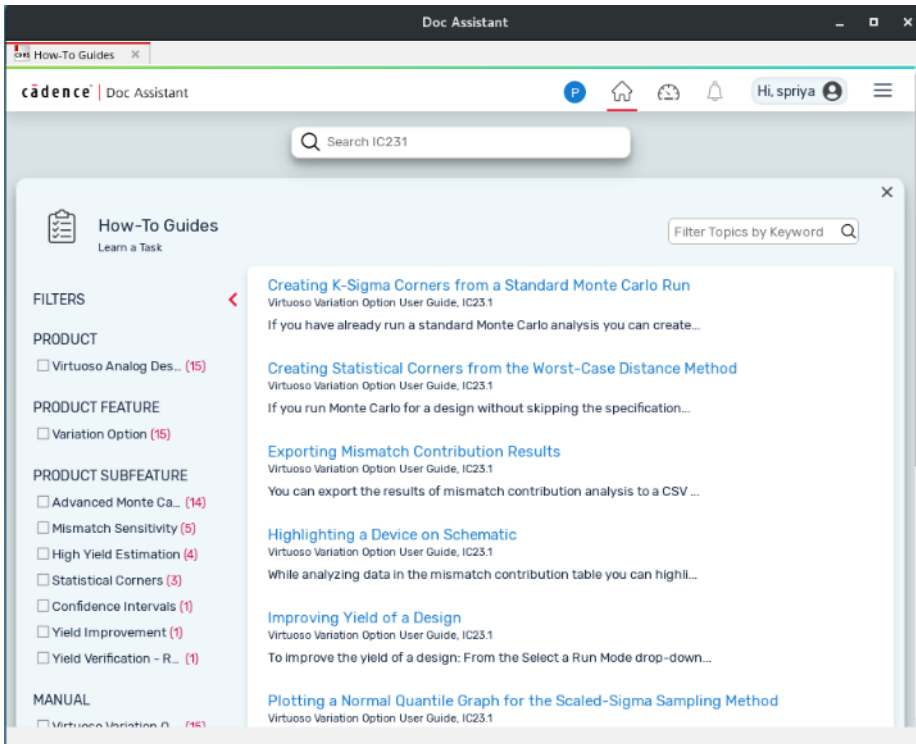
You can narrow down the list by:

- Selecting the required content filters from the left panel. For example, select a *PRODUCT* filter to list all topics related to the product.

- Typing a keyword in the *Filter Topic by Keyword* box. Only the topics containing the keyword are listed below.

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Doc Assistant Network Modes

Doc Assistant can be used in two network modes, Online and Offline. By default, Doc Assistant is launched in Offline mode.

For more information about these modes, see:

- Doc Assistant - Online Mode

- Doc Assistant - Offline Mode

Doc Assistant - Online Mode

If you are connected to the Internet and have a valid license, Doc Assistant can be launched in Online mode. In this mode, search results are displayed from the documents that are available on the Doc Assistant server and Cadence Support.

You can also access Cadence Support content, such as App Notes, RAKs, and Troubleshooting related information in this mode.
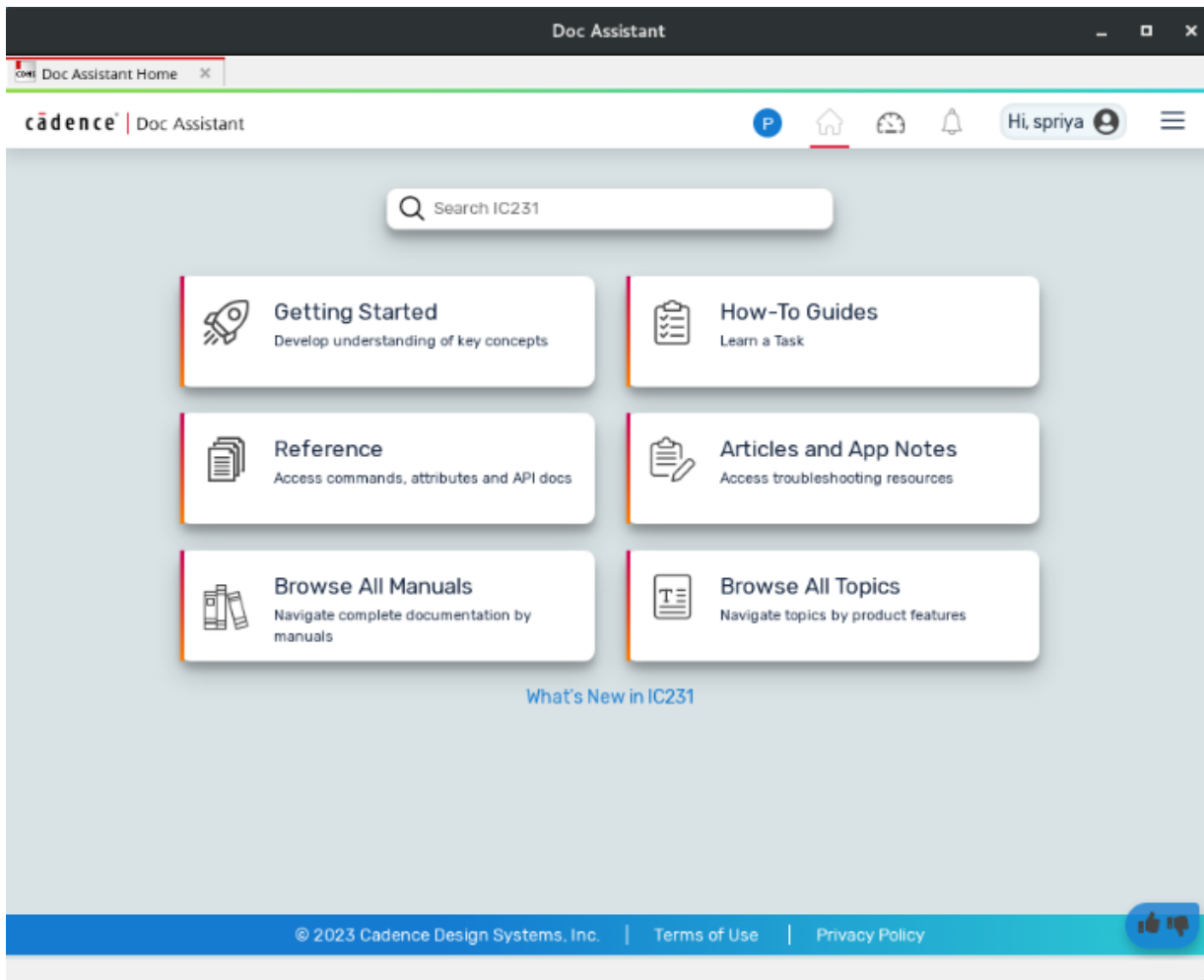
If Doc Assistant is in Offline mode, you can switch to Online mode by switching on the *View Documentation Online* option from the hamburger menu.

Doc Assistant Network Modes--Doc Assistant - Offline Mode
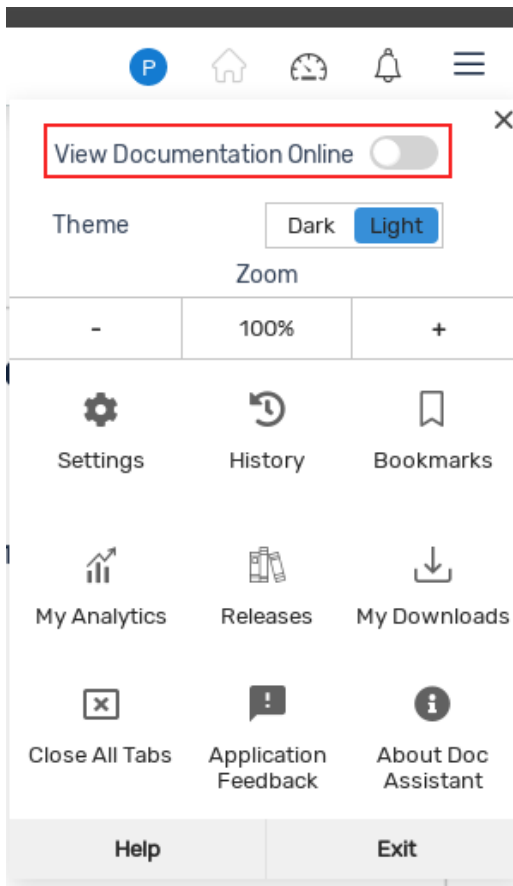
Doc Assistant - Offline Mode

You can use Doc Assistant even when you are working in a restricted environment, where you have limited or no Internet connectivity. In this case, Doc Assistant is launched in Offline mode. You can search content from documents of products that are installed on your machine.

You can select or deselect products from the My Products which will change the order in which content appears on the welcome page and search results.

A message is displayed at the top indicating that you are offline, and therefore Doc Assistant is in Offline mode.

To make Offline Documentation the default mode when Doc Assistant is launched:

- Set the CDA_OFFLINE environment variable to `true`.

- Specify the CDA_OFFLINE variable in the *help.ini* file in a new line.

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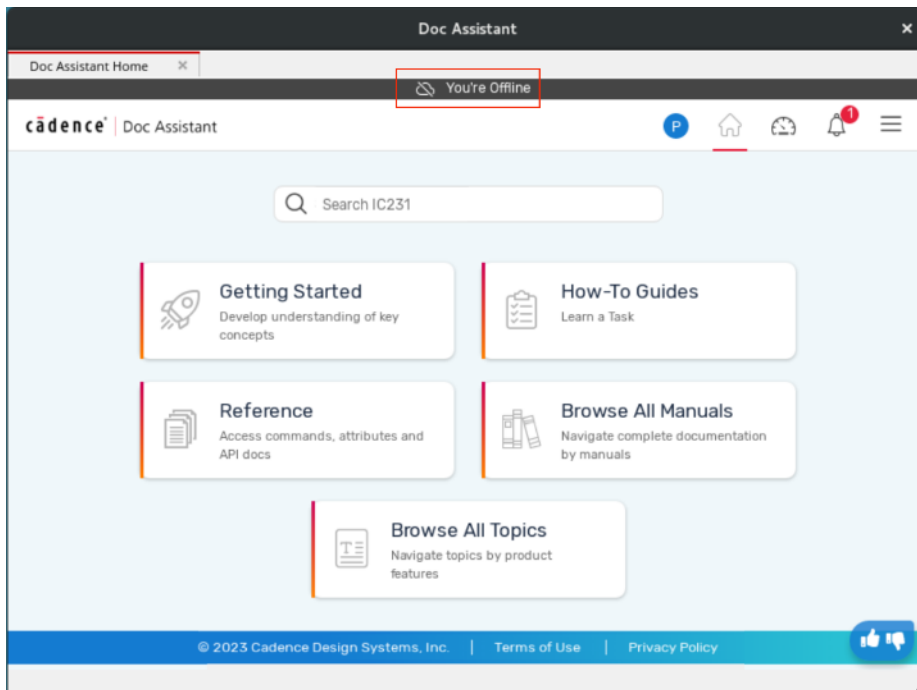
If Doc Assistant is in Online mode, you can switch to Offline mode and set it as the default mode by switching off the *View Documentation Online* option from the hamburger menu.

5
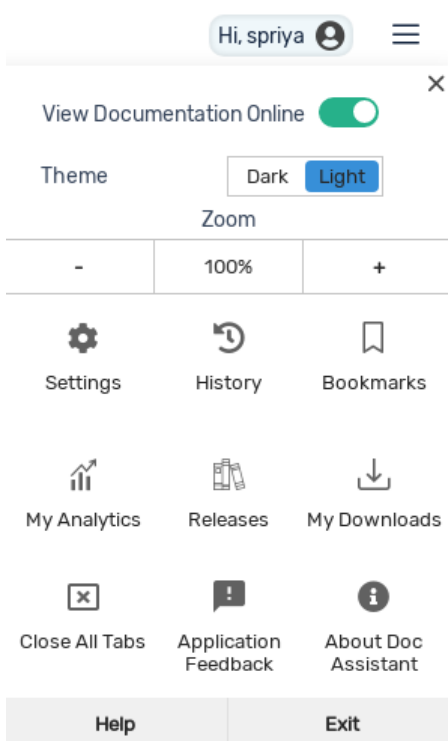
Doc Assistant Themes

The Doc Assistant supports the following themes:

- *Light*: This is the default theme, where the background is light and text is in a darker color.

- *Dark*: Switching to the *Dark* theme reduces stain on your eyes and also the power consumption to some extent. In this mode, the background is dark and text is in a contrasting lighter color.
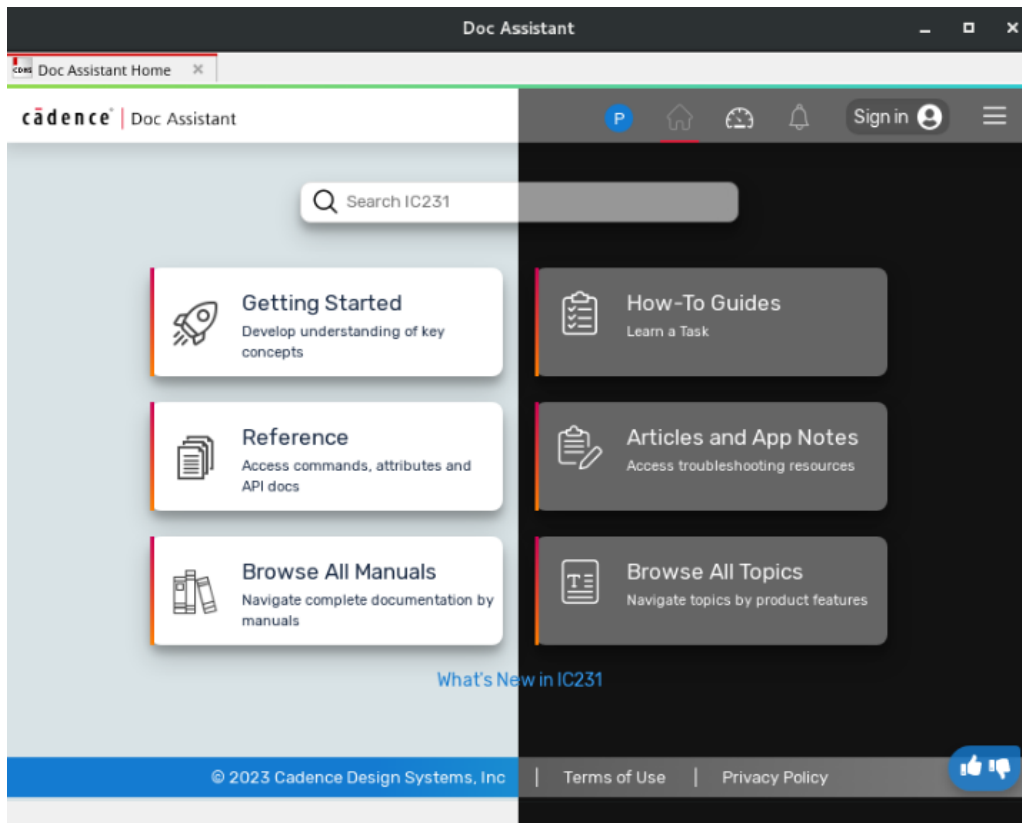
To switch to the dark theme:

1. Click the Hamburger menu (*icon*).

2. Set *Theme* to *Dark*.
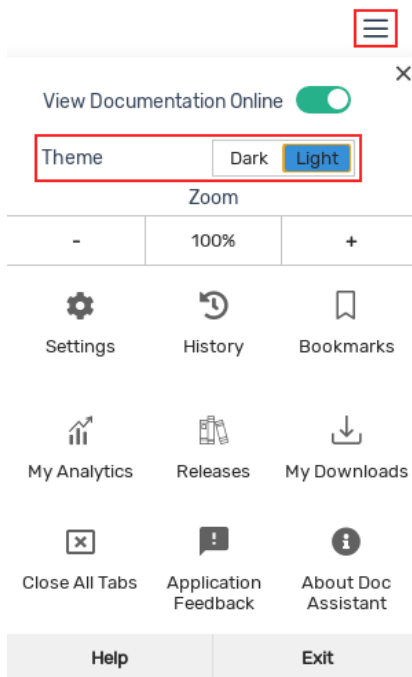
The selected theme is set as the default for your current session.

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Searching Through Content

Searching for content using Doc Assistant is very easy.

To search, start typing what you are looking for in the search bar. As you type, a word list appears below the search bar. These are suggestions related to the word that Doc Assistant fetches by matching the search strings. If you find a suitable result in the SUGGESTED SEARCH list, select it. If not, keep on typing.

You can also click a topic title in the PAGES section to take you directly to the relevant page of the document.
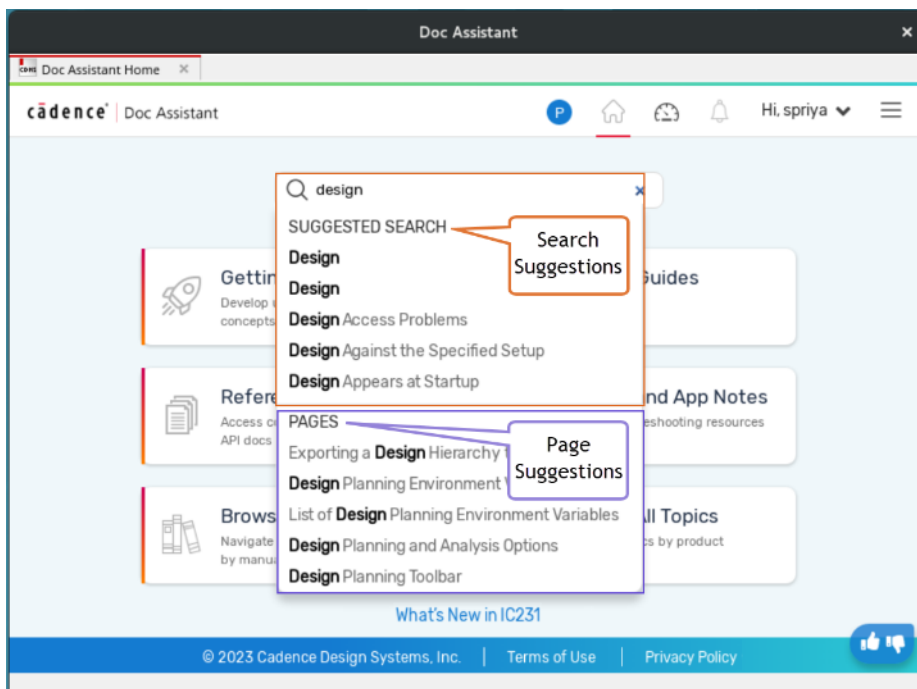
Doc Assistant also provides alternative suggestions for a misspelled search term.
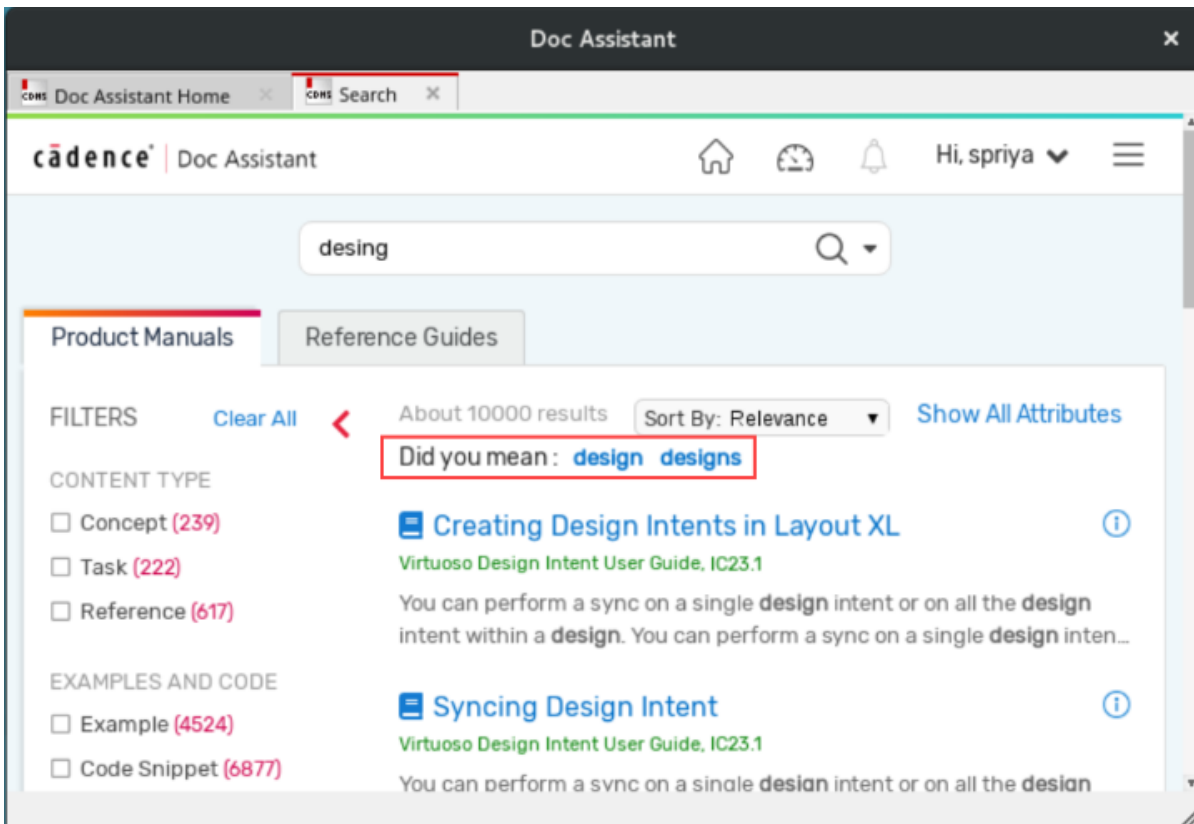
⊘ You can display a brief description of each of the search results, such as the product category, the manual name, and the chapter name. Click *Show All Attributes* or *Hide All Attributes* to show or hide the attributes for all the search results or click ⓘ to view the attributes for a specific search result.

The key features related to Search are:

- Search Results

- Topic Viewer

- Indexing

Search Results

You can click a matching suggestion or press enter to search. Search results with all the topics matching the searched term are displayed.

On the search results page, you can:

- Refine the search criteria. The drop-down arrow in the search box displays the *Search*

Options form, that lets you customize the search options.

- ○ *Word Match*, the default option, retrieves topics that contain the specified keyword. Here, you can select whether the tool must match only whole words or honor wildcards.

- ○ *Find Exact Word* returns only those topics that include the exact search string as specified in the search criteria.
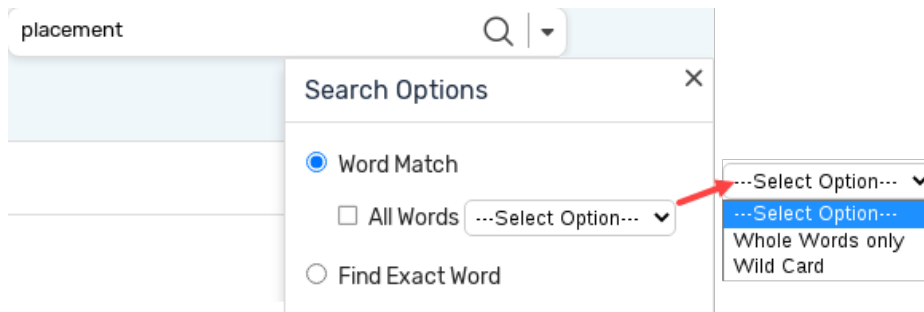
- Sort the results from the *Sort By* drop-down. Sorting can be done based on the following:

  - ○ *Relevance:* Sorts results based on their relevance to the search keyword. Closest matches are listed at the top.

  - ○ *Manual Title:* Sorts results by arranging their product manual titles alphabetically.

  - ○ *Last Updated:* Displays the most recently-updated documents at the top.

- View the search results on the *All* tab.

- Filter the search results.

- View only reference topics related to your search in the *Reference Guides* tab.

- View content related to your search available on the Cadence Support portal in the *Learning & Support Resources* tab. Doc Assistant, by default, opens up all the links in this tab within Doc Assistant (as a separate tab). You might have to provide support.cadence.com credentials depending on the licenses you own.

- Specify the number of search results to be displayed on each page from the options at the bottom of the search results page.

Although the Doc Assistant displays the contents of web pages, the interface does not support all web browser features. To open web links in an external web browser, go to Doc Assistant *Settings* and select *Open Web Links in Browsers*.
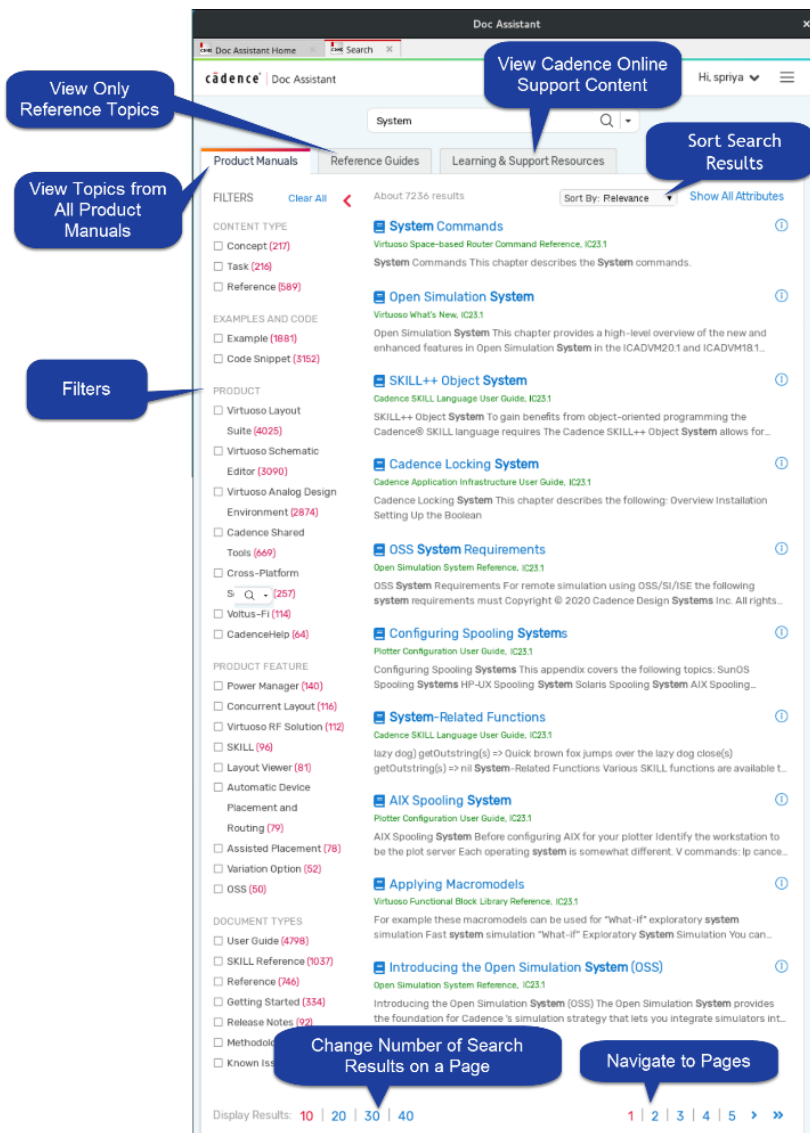
Topic Viewer

Click a search result to open a topic.

The topic is opened in a new tab that displays:

- Breadcrumbs, which allow you to navigate to the lower nodes of the document.

- *Switch Topic Version*, which lets you select a different release and view the version of the current topic published for that release. The topic opens in a new tab.

- *Filter by Title*, which lets you specify a keyword to filter content in the current user manual.

- The Table of Contents (TOC).

- *View PDF*, which opens the topic contents in the PDF format. The PDF opens in a new tab.

- Show or Hide header, which lets you control display of the header. Hiding the header improves the readability of content in the topic viewer.

- *Recommended Content*, which displays topics related to the current topic displayed.

- The topic content on the right side.
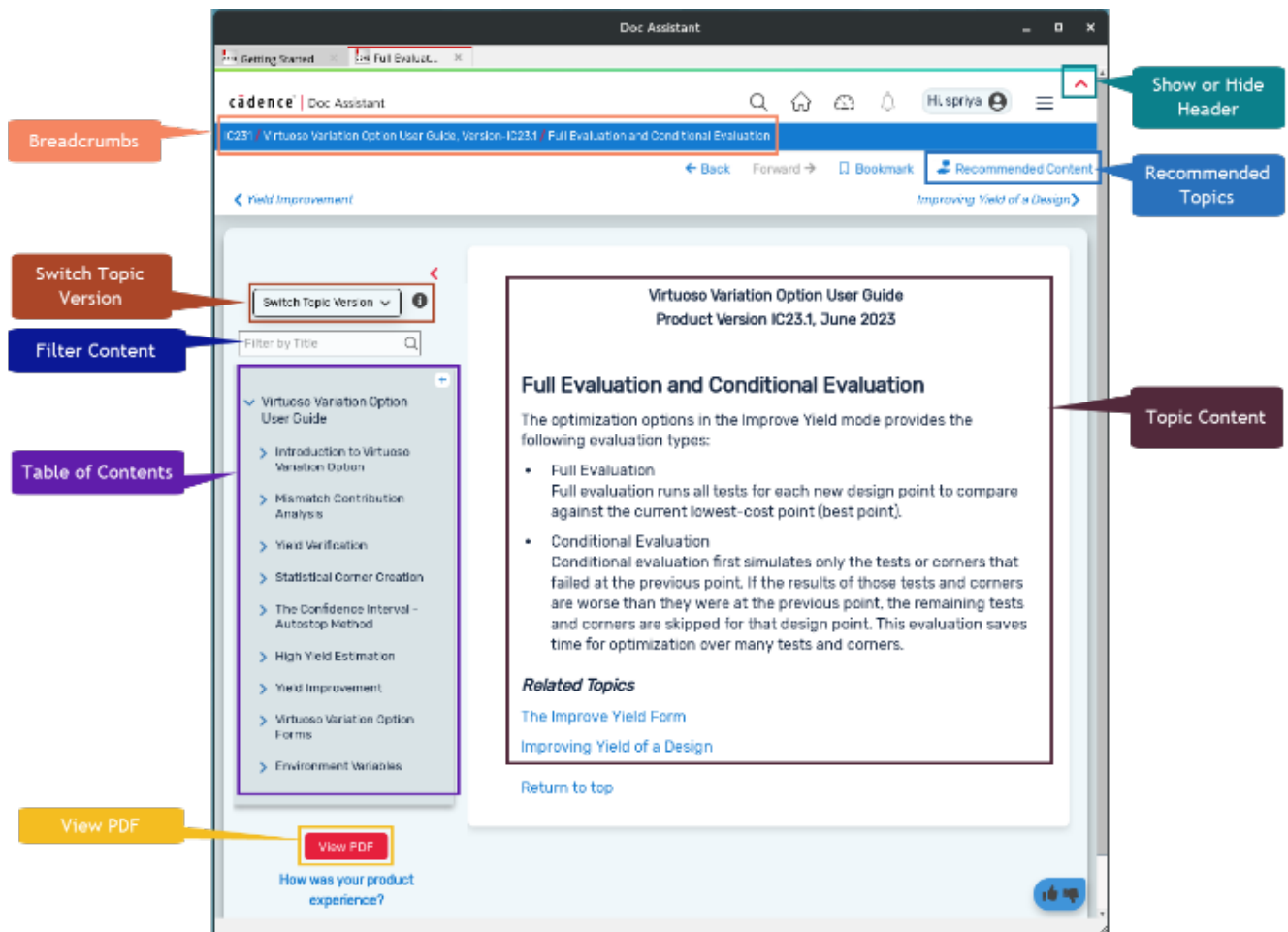
To close a tab, click the Close button for the tab or right-click anywhere in the topic viewer and choose *Close Tab* from the shortcut menu.

If only one tab is open, the command opens the Doc Assistant home page.

You can also use the `Control + w` bindkey to close a tab in the topic viewer. This bindkey does not work as required when there is only one tab open in the topic viewer.

Indexing

When you perform a search, Doc Assistant retrieves results by looking for the searched keyword in the index files that store all search-related data.

Doc Assistant automatically creates a search index if the search index is missing or broken in the `<installation_dir>/doc` directory and displays a notification in the *Notifications* list.

On a Linux machine, if you don't have write permissions to the Doc Assistant install directory, set the CDA_HOME_AUTOINDEX environment variable to `true` to create the search index in the user home directory.

On a Windows machine, Doc Assistant creates a search index in the user home directory by default. To disable this behavior, set the CDA_DISABLE_HOME_AUTOINDEX environment variable to `true`.

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Filtering Search Results

The *Filters* options let you narrow down the search results. These filter options are available on the *Product Manuals* and *Reference Guide* tabs of the Doc Assistant.

In Online mode, all the available filter options are updated dynamically based on the currently selected filter. For example, if select a *Content Type* filter, the other filters, *Product*, *Product Feature*, and *Document Types,* change accordingly.

The selected filter is displayed on top of the search result page with a cross icon so that you can easily remove the filter to display all search results. The number displayed in the brackets next to every filter option indicates the number of search results available if the filter is applied.

The following content filters let you filter search results:

- Content Type

- Examples and Code

- Product

- Product Feature

- Document Types

- Category
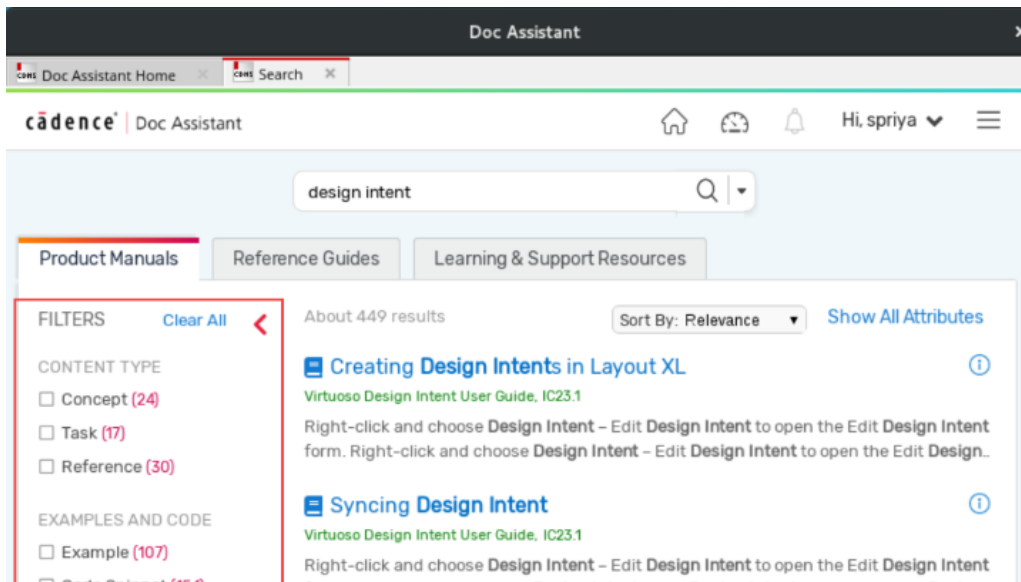
☐ Code Snippet (154)

PRODUCT

☐ Virtuoso Schematic
   Editor (362)
☐ Virtuoso Layout
   Suite (242)
☐ Virtuoso Analog Design
   Environment (213)
☐ Cadence Shared Tools (1)
☐ Cross-Platform
   Solutions (1)

PRODUCT FEATURE

☐ Power Manager (67)
☐ Automatic Device
   Placement and
   Routing (2)
☐ VLS-EXL (1)
☐ Virtuoso MultiTech
   Framework (1)

DOCUMENT TYPES

☐ User Guide (357)
☐ SKILL Reference (42)
☐ Release Notes (21)
☐ Methodology (11)
☐ Getting Started (9)
☐ Reference (7)
☐ Known Issues (2)

form. Right-click and choose **Design Intent** – Edit **Design Intent** to open the Edit **Design**...

📄 Adding Objects to a **Design Intent**   ⓘ
Virtuoso Design Intent User Guide, IC23.1

the new **design intent** and choose **Design Intent** – Edit **Design Intent**. Choose **Design Intent** – Add Object to **Design Intent**. Object from **Design Intent** to delete the **design**...

📄 Editing a **Design Intent**   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Right-click and choose **Design Intent** – Edit **Design Intent** to open the Edit **Design Intent** form. Right-click and choose **Design Intent** – Edit **Design Intent** to open the Edit **Design**...

📄 Removing Objects from **Design Intent**s   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Object from **Design Intent** to delete the **design intent**. You can delete a **design intent** by selecting the **design intent** in the Navigator and choosing **Design Intent** the canvas and...

📄 Syncing **Design Intent**s   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Syncing **Design Intents** You can either sync an individual **design intent** or all **design intents** to update any **design intent** changes in the schematic and layout views to...

📄 Generating Reports on **Design Intent**   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Generating Reports on **Design Intent** The progress of all the **design intent** implementation on a **design design intent**. Right-click a **design intent** or an object...

📄 Prerequisites   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Features Specific to **Design Intent Design intent** has specific features available using the **Design-Intent Design-Intent** Workspace **Design Intent** Toolbar Interacting with...

📄 Removing Objects from **Design Intent**s   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Removing Objects from **Design Intents** To remove an object from a **design intent**: Select the objects to Right-click and from the menu displayed choose **Design Intent** – Remove...

📄 **Design Intent**s in the Constraint Manager   ⓘ
Virtuoso Design Intent User Guide, IC23.1

Design Intents in the Constraint Manager **Design Intent** allows schematic designers to capture their **design** implementing the **design intent** in the **design**. **Design intents** are...

Display Results: **10** | 20 | 30 | 40   1 | 2 | 3 | 4 | 5 › »

Content Type

You can filter search results based on their type of content, *Concept*, *Task*, and *Reference*. Selecting the *Reference* filter, for example, lists all reference-related topics, such as API documentation, description of environment variables, description of options in a form, dialog box, menu, or toolbar. Selecting the *Task* filter, lists all How-To topics. The *Concept* filter lists all conceptual topics, for example the features and benefits of a tool, a product flow, or the prerequisites for using a tool.
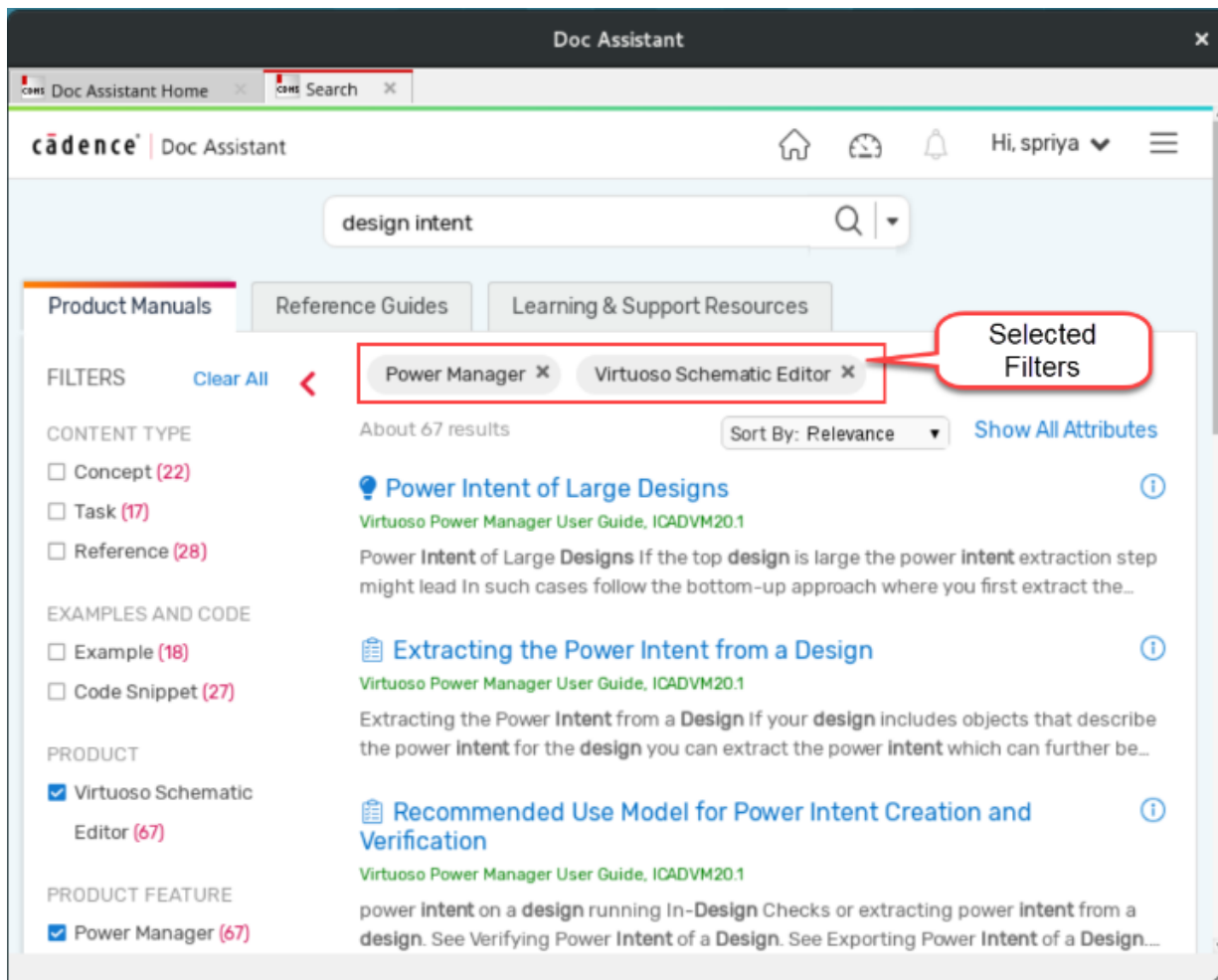
✓ Click *Clear All* to remove all the selected filters at once.

Examples and Code

Filters out documents that contain examples and code snippets. The search result count may include multiple instances from the same page.

Product

Displays documents that are associated with the selected products, for example, *Virtuoso Schematic Editor*, and *Virtuoso Layout Suite*.

Product Feature

Filter search results according to product features. For example, selecting *Power Manager* lists only those topics that have reference to Power Manager.

Document Types

Filter documents according to the type of document, for example, *User Guides*, *SKILL Reference*, and *Release Notes*.

Category

This filter is available only on the *Learning & Support Resources* tab. You can filter content according to their content categories, such as *Troubleshooting*, *Videos*, and *What's New*.

8

Finding Content within a Page

Use the Find feature to search for a word or a sentence in a page.

To find a word within a page in the Doc Assistant:

1. Press *Ctrl + F* or select *Find In Page* from the hamburger menu to display the Find box.
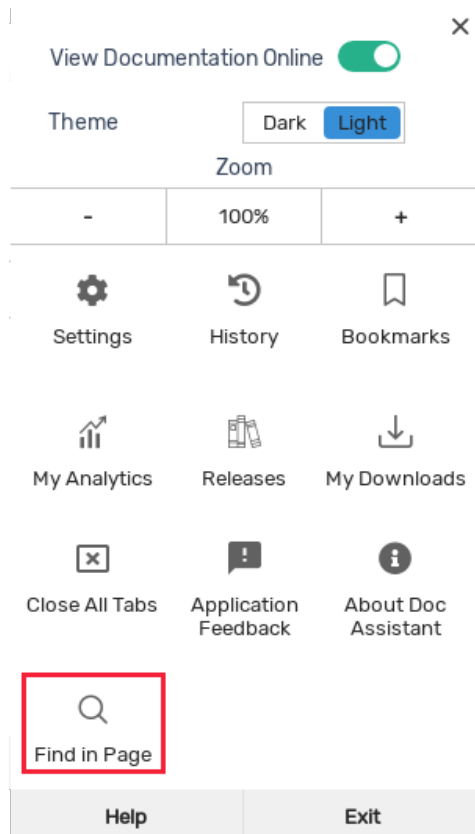
2. Type the search term in the *Find* box and press `Enter`. All instances of the searched keyword in the page are highlighted.

3. Use the ∧ and ∨ arrows to navigate through these matching terms within the page.
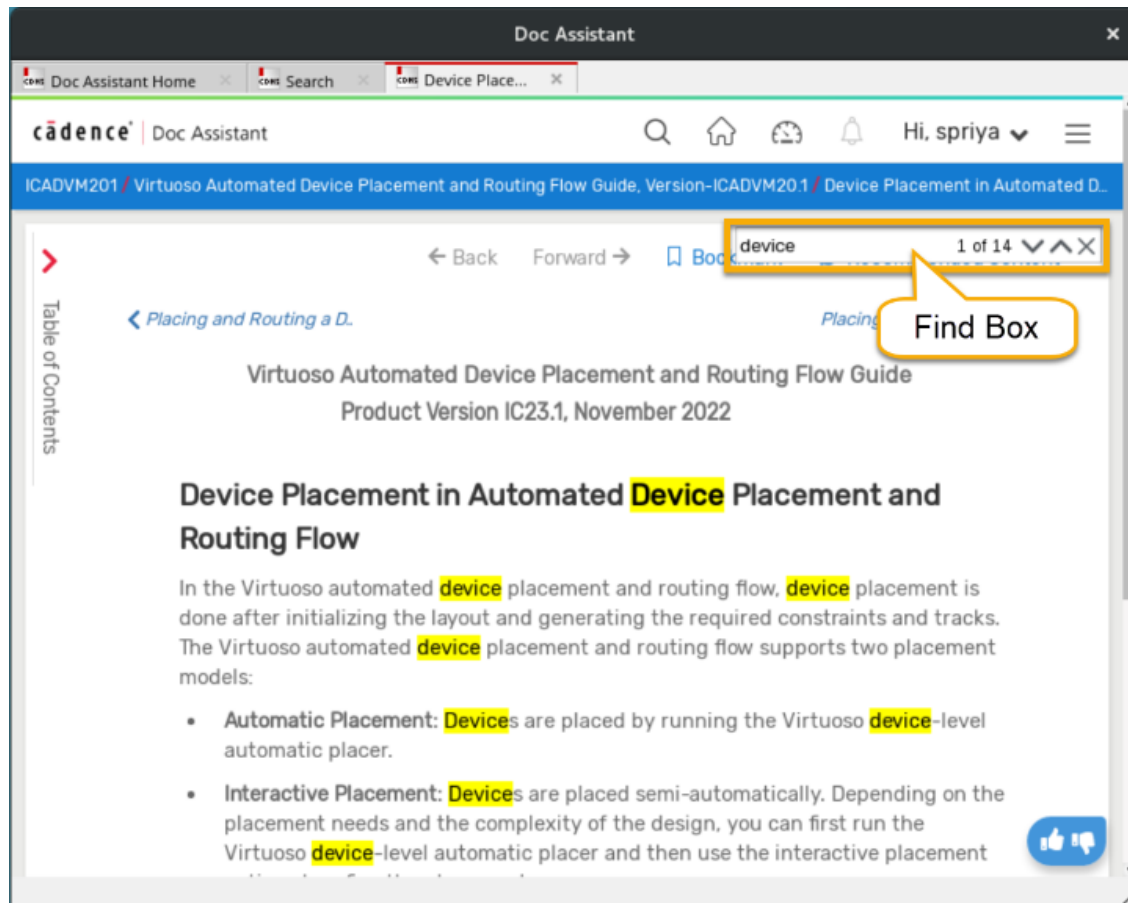
If the search term is not found, the background of the *Find* box turns red.

9
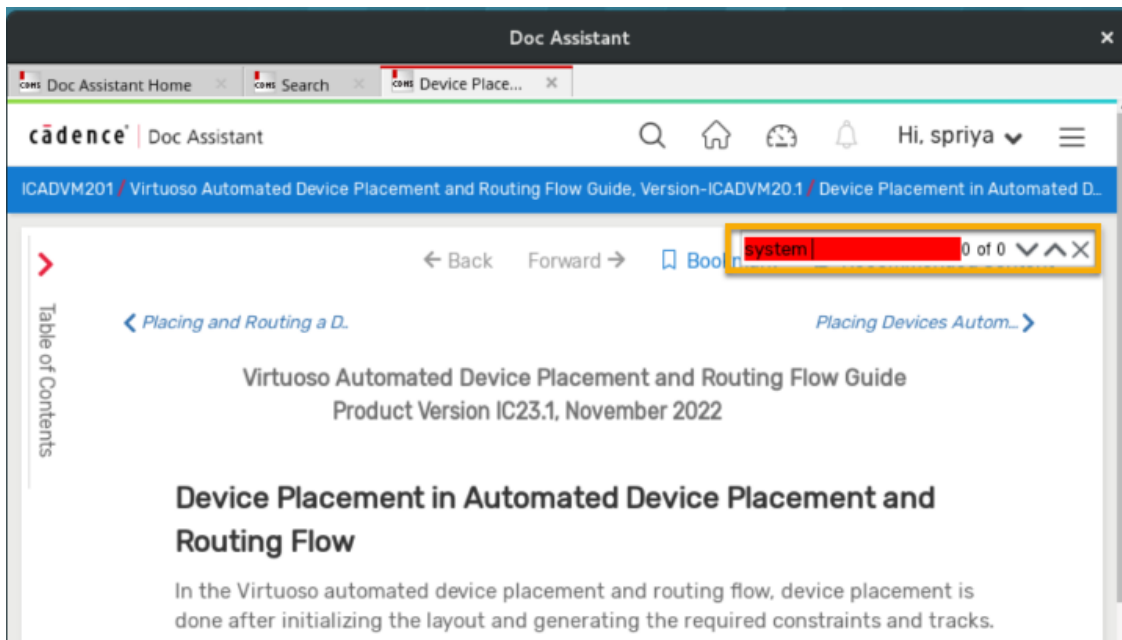
Sending Feedback

The Doc Assistant provides multiple options to share your feedback on the content, product, and the documentation viewer.

- Use the 👍 and 👎 buttons in the topic viewer to share your feedback on the topic content.

- Click the *How was your Product experience?* link at the bottom of the TOC to share feedback about the product.

- Select *Application Feedback* from the hamburger ☰ menu to share feedback about Doc Assistant.

Clicking the 👍 button shares positive feedback. In all other cases, the Share your feedback form appears in which you can provide detailed comments.

To share detailed feedback:

1. Open the Share your feedback form using one of the above methods.

2. Select a *Scope*, which is the area in which you found an issue — the *Documentation*, the overall *Product*, or the *Help Application* (Doc Assistant).

3. Select a *Feedback Type* — *Bug*, *Enhancement Request*, *Need Training*, *Support*, or *Others*.

4. Type your detailed feedback in the *Description* field.

5. Type your corporate email id in the *Email ID* field.

6. Click *Send*.

Your feedback is sent to the Cadence Doc Assistant team.

10

Troubleshooting Doc Assistant

- Debugging Doc Assistant

- Accessing Doc Assistant

- Viewing Updated Content in Doc Assistant

- Disable high-dpi for higher resolution devices

Debugging Doc Assistant

To debug Doc Assistant , set the `CDA_API_DEBUG` and `CDA_DEBUG` environment variables.

Set the value of the `CDA_API_DEBUG` environment variable to `debug` to log Doc Assistant API debug information to the `CDA_API_log.txt` file in the `$HOME/.config/cadence` directory.

Set the value of the `CDA_DEBUG` environment variable to `debug` to log the Doc Assistant debug information to the `cdaLogger.txt` file in the `$HOME/.config/cadence` directory.

> You can change the location of the logs by setting the value of the CDA_HOME environment variable to the path where you want the debug log files to be created.

Accessing Doc Assistant

This topic lists certain corner cases where the required content might not be displayed in the Doc Assistant.

Doc Assistant Does Not Launch

- If you are not able to open Doc Assistant from your tool, ensure that the installed *doc* folder has write permissions. Follow these instructions:

    1. Delete the *.config* file.

2. Launch Doc Assistant from the tool.

3. If the problem persists, check if there is any help process running in the background. If yes, kill the process and launch Doc Assistant. Ensure to wait till indexing finishes.

Path to Doc Assistant Could Not be Found

You might not be able to access Doc Assistant if the tool path is not correctly provided to Doc Assistant API while launching it from the tool. Specify the correct path to your tool or to Doc Assistant in the CDA_EXE_CUSTOM_PATH environment variable.

Doc Assistant Opens Up in Standalone Mode

If Doc Assistant does not display help from the Cadence tools and opens up in standalone mode (where you see the default view of Doc Assistant), follow these troubleshooting methods:

1. Check your process table and kill any running Doc Assistant process, and re-launch Doc Assistant.

2. If the problem persists, contact your IT team to check if the communication ports are blocked on the machine from which you are accessing Doc Assistant. Try launching Doc Assistant after the ports are enabled.

Context-Specific Help Topic Is Not Loaded

If Doc Assistant does not display context-specific help topics, follow these troubleshooting methods:

1. Ensure you have read access to the documentation directory (INST_DIR/doc) and all the sub-directories. Once you enable it, try to launch help from the dialog box or tool interface where you got the error.

2. If the problem persists, create the debug files (see Debugging Doc Assistant) after running the steps where you faced the issue and send them to Cadence Customer support.

Doc Assistant License Check Fails

If the Doc Assistant licensing check fails, use the following environment variables to a specify a valid licensing server:

setenv CDS_LIC_FILE *severName*

setenv LM_LICENSE_FILE *serverName*

Viewing Updated Content in Doc Assistant

If you are not able to view the relevant content in the search results although it exists in the documentation hierarchy, the index could be outdated. Doc Assistant automatically updates the search index and notifies it in the *Notifications* list.

Disable high-dpi for higher resolution devices

When you use a 4K or higher resolution monitor, to avoid any issues with the text and images displayed in Doc Assistant, set the CDA_NOHIGHDPI environment variable to `true`.

11

My Dashboard

My Dashboard in Doc Assistant allows you to view recently visited topics, bookmarks, charts that display the percentage of topics visited by the user. You can access the dashboard from ⌖ icon on the menu bar. You can also add or remove document libraries, select or deselect products, install the latest document, and change Doc Assistant settings from the dashboard.
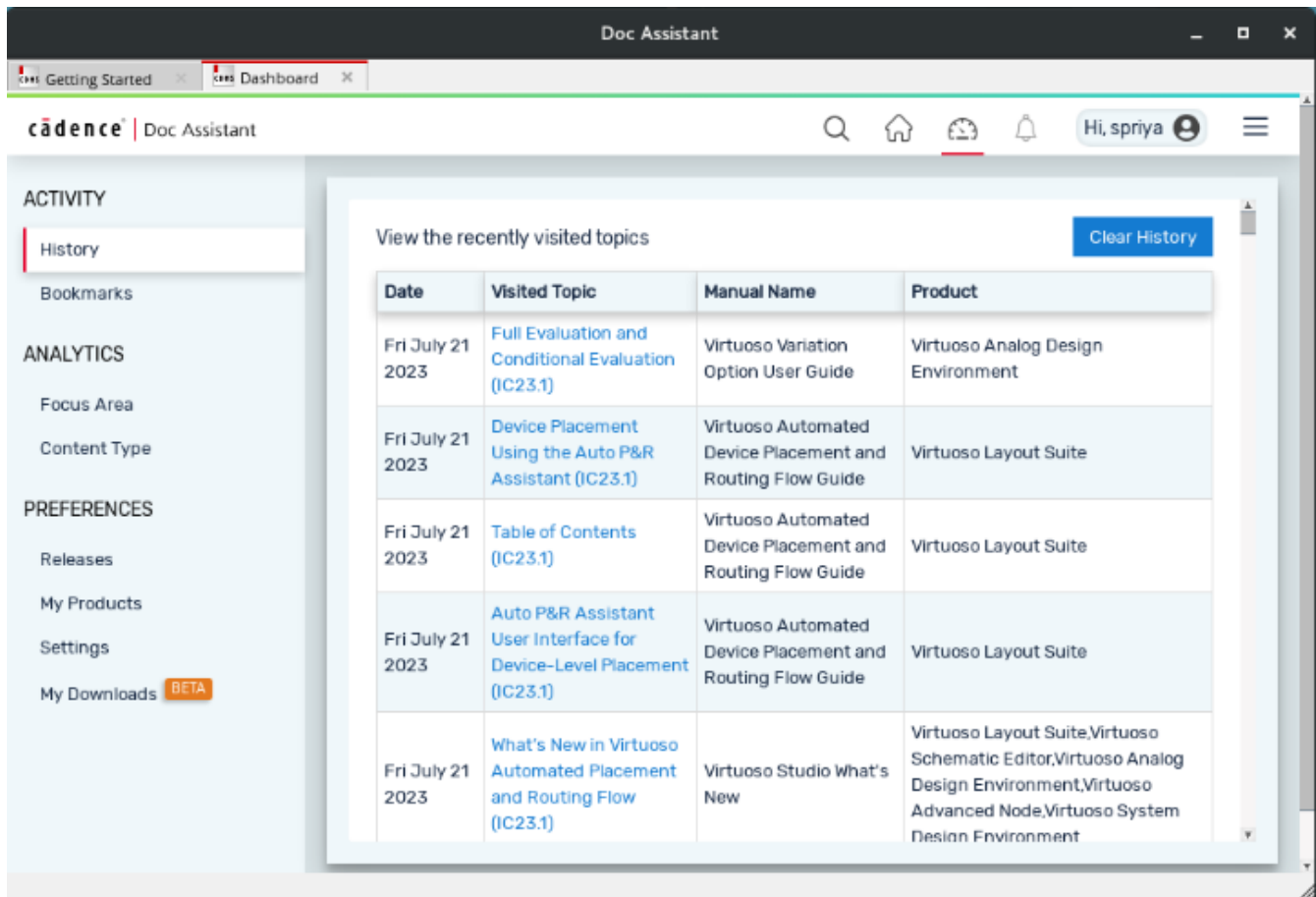
The dashboard lets you define the following settings:

- History

- Adding Bookmarks

- Managing Bookmarks
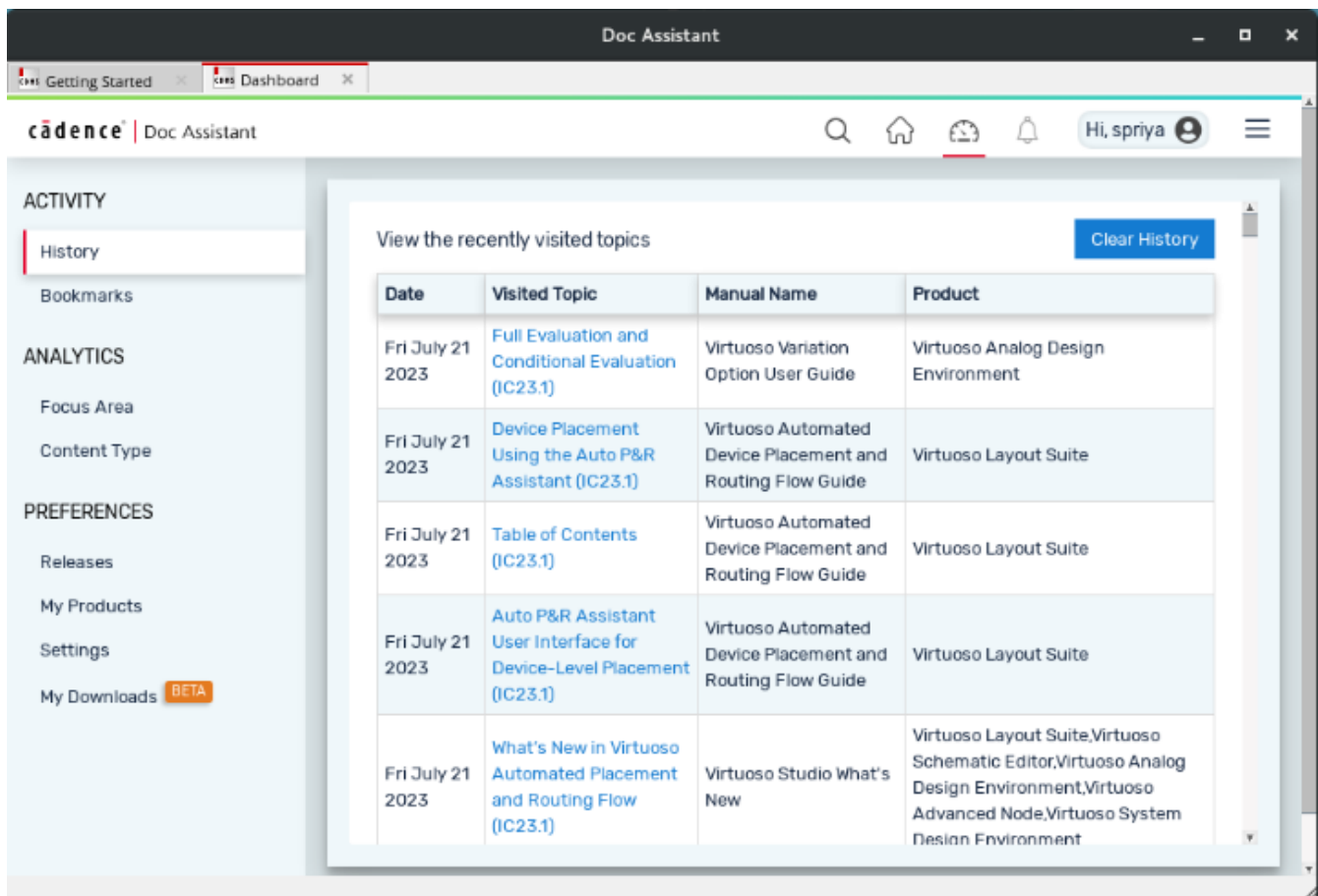
- Focus Area

- Content Type

- Document Releases

- My Products

- Doc Assistant Settings

- My Downloads

History

You can view all recently visited topics on this page. Details of these topics, such as the date, manual name, and the product name, are displayed in a table along with the topic link.

When you are in Online mode and click an Offline documentation topic on this page, it is displayed in a new window outside the Doc Assistant window.

Click *Clear History* to delete the browsing history.

To import Cadence Help history into Doc Assistant, refer to Importing Cadence Help History and Bookmarks.

> ⊘ You can also view this page by clicking the *History* button in the Hamburger menu.
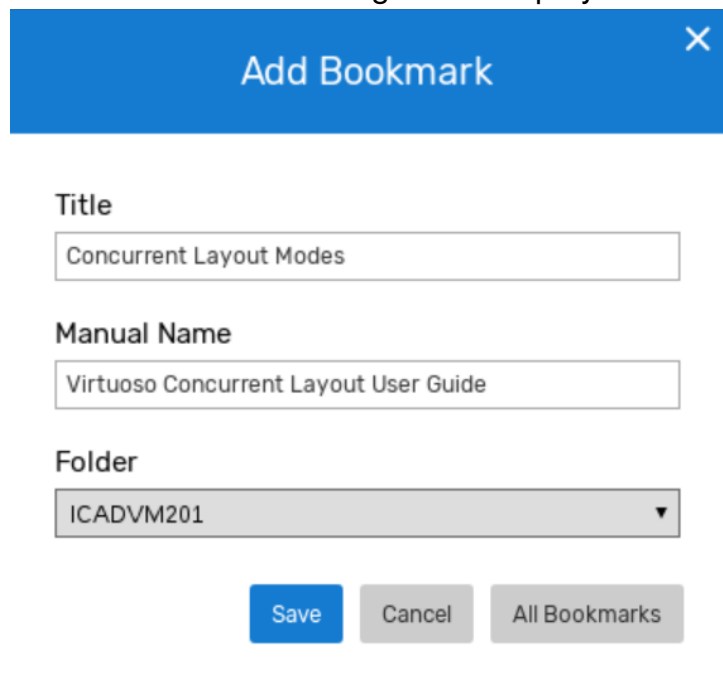
Adding Bookmarks

Doc Assistant lets you bookmark a topic so that you can visit it again later.

To bookmark a topic:

1. Click the *Bookmark* icon on the top of the Topic Viewer. Alternatively, right-click anywhere in the topic viewer and choose *Add to Bookmarks* from the shortcut menu.
   The *Add Bookmark* dialog box is displayed.

   Add Bookmark ✕

   Title
   `Concurrent Layout Modes`

   Manual Name
   `Virtuoso Concurrent Layout User Guide`

   Folder
   `ICADVM201` ▼

   [Save] [Cancel] [All Bookmarks]

2. The *Title* and *Manual Name* fields are already populated with the title and manual name of the topic.

3. Select a folder from the *Folder* drop-down list in which you want to store the bookmark.

4. Click *Save*.
   The bookmark is saved.
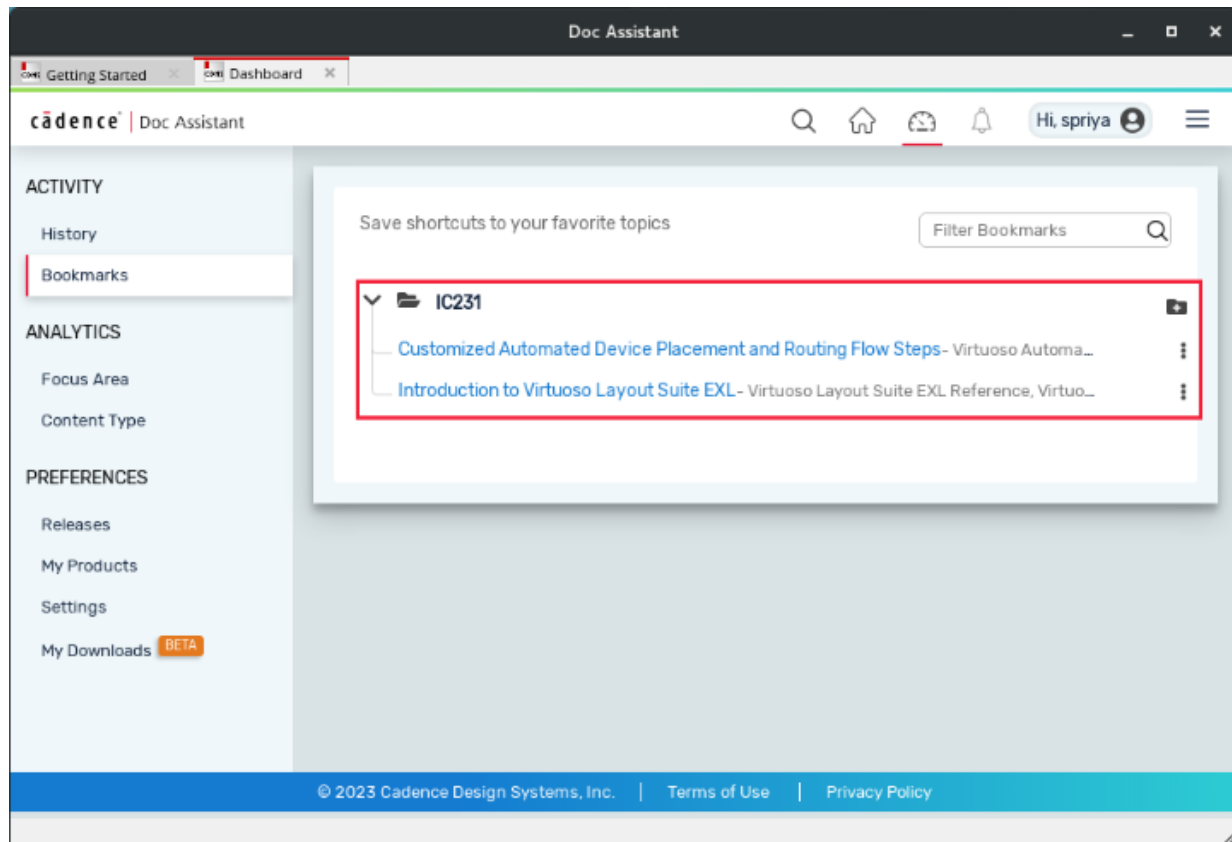
Clicking *All Bookmarks* displays a list of bookmarks that you have added for all your releases.

When you bookmark a page, the Bookmark icon on the page automatically changes to blue, indicating that the page is already bookmarked. You cannot bookmark this page again unless you delete the bookmark.

To import Cadence Help bookmarks into Doc Assistant, refer to Importing Cadence Help History and Bookmarks.

Managing Bookmarks

In Doc Assistant, you can easily delete or move a bookmark to a new folder.

Deleting Bookmarks

To delete a bookmark:

1. Click ⋮ corresponding to the bookmark you want to delete

2. Select *Delete.*
   A confirmation message is displayed.

3. Click *Delete* on the confirmation message.
   The bookmark is deleted.

Editing Bookmarks

You can edit bookmark details from the bookmarks list.

To edit a bookmark:

1. Click ⋮ corresponding to the bookmark you want to edit.

2. Select *Edit.*
   The *Add Bookmark* dialog box is displayed.

3. Edit the title or name of the manual in the *Title* or *Manual Name* fields*.*

4. Click *Save*.
   The bookmark is saved.

Moving Bookmarks into a Folder

You can create a new subfolder in the release folder of the bookmarks list and move your bookmarks to the subfolder.

To move a bookmark into a subfolder:

1. Click the ⊞ button corresponding to the release folder where you want to create a subfolder.
   A subfolder with the name *New Folder* is created. To rename the folder, double-click *New Folder*.

2. Type the new name.
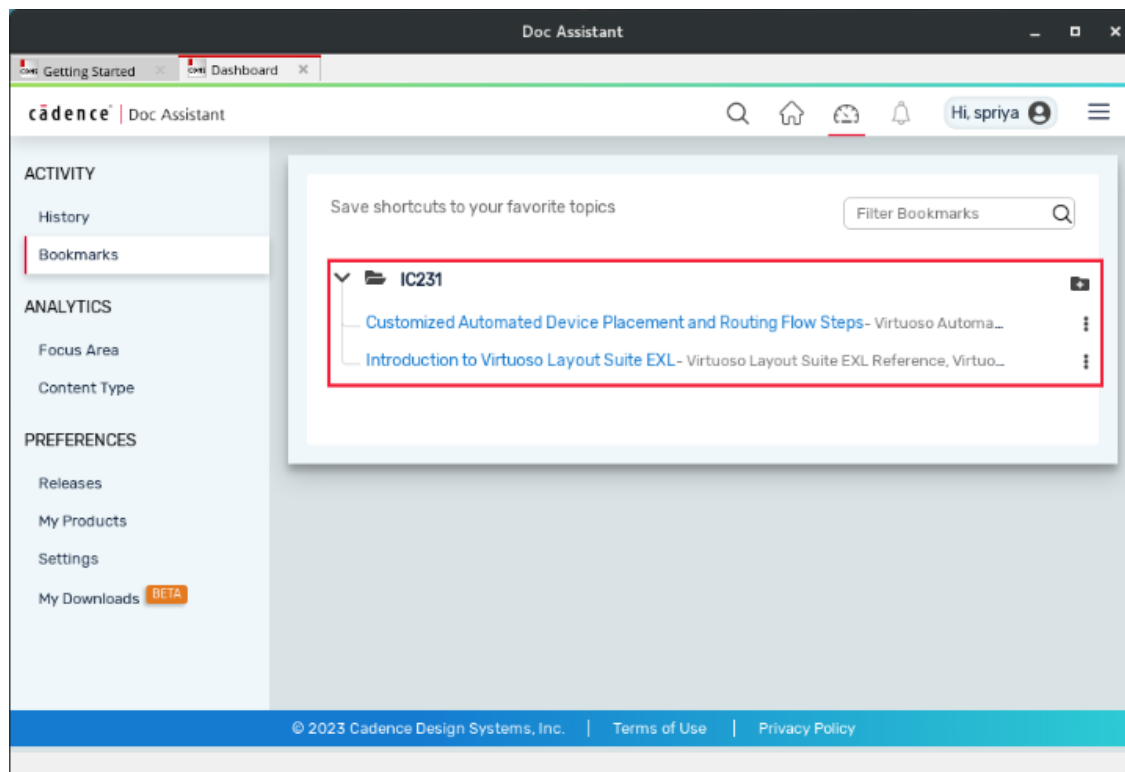
3. Click ⋮ corresponding to the bookmark you want to move.

4. Select *Edit*.
   The *Add Bookmark* dialog box is displayed.

5. Select a folder from the *Folder* drop-down list.

6. Click *Save*.
   The bookmark is moved to the subfolder.
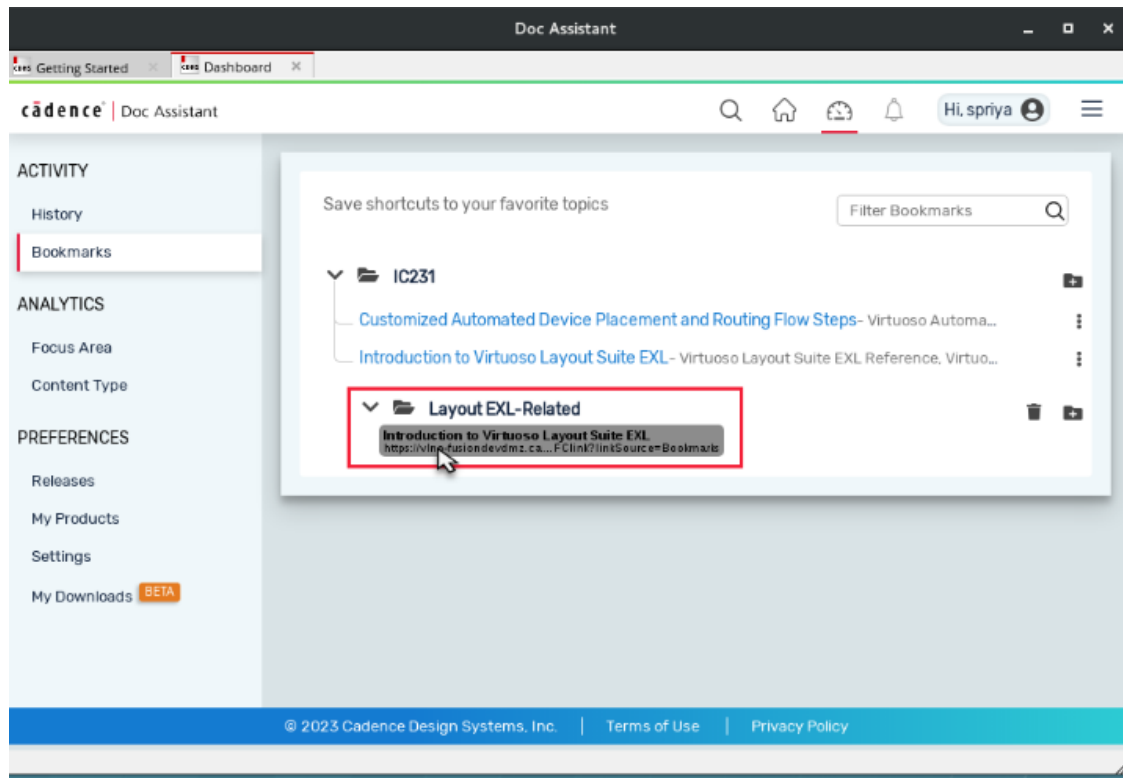
Importing Cadence Help History and Bookmarks

When Doc Assistant is launched for the first time, you can import Cadence Help browsing history and bookmarks to Doc Assistant.

To import Cadence Help history and bookmarks to Doc Assistant:

1. Click the *View Notifications* icon on the toolbar.
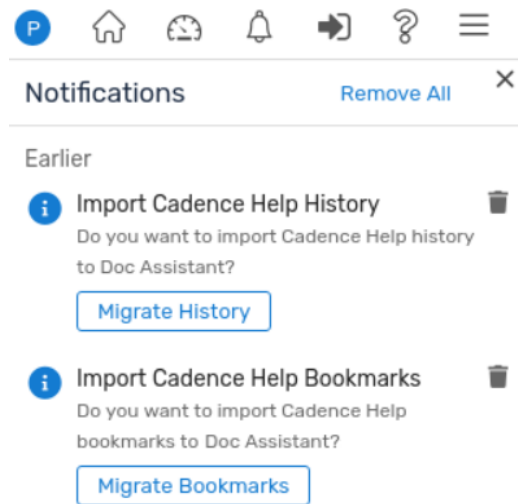
2. Click the *Migrate History* button to import Cadence Help browsing history to Doc Assistant. A success message is displayed in the *Notifications* list.
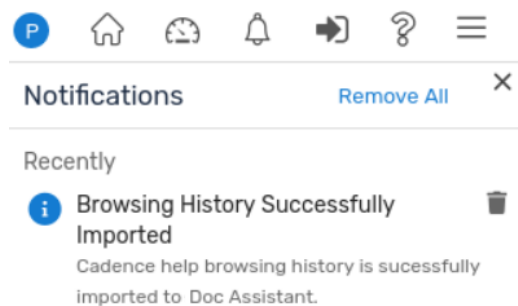
3. Click the *Migrate Bookmarks* button to import Cadence Help bookmarks to Doc Assistant. A success message is displayed in the *Notifications* list.
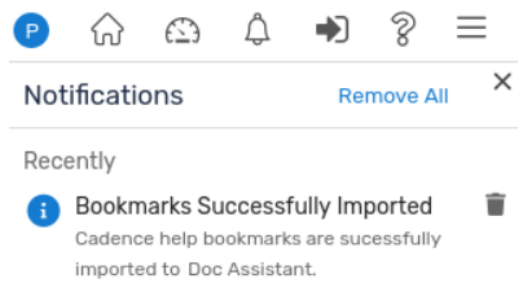
Focus Area

This page displays details about the most visited product feature topics based on your browsing history. Links to these topics along with the product name and topic type are displayed in a table below the chart.
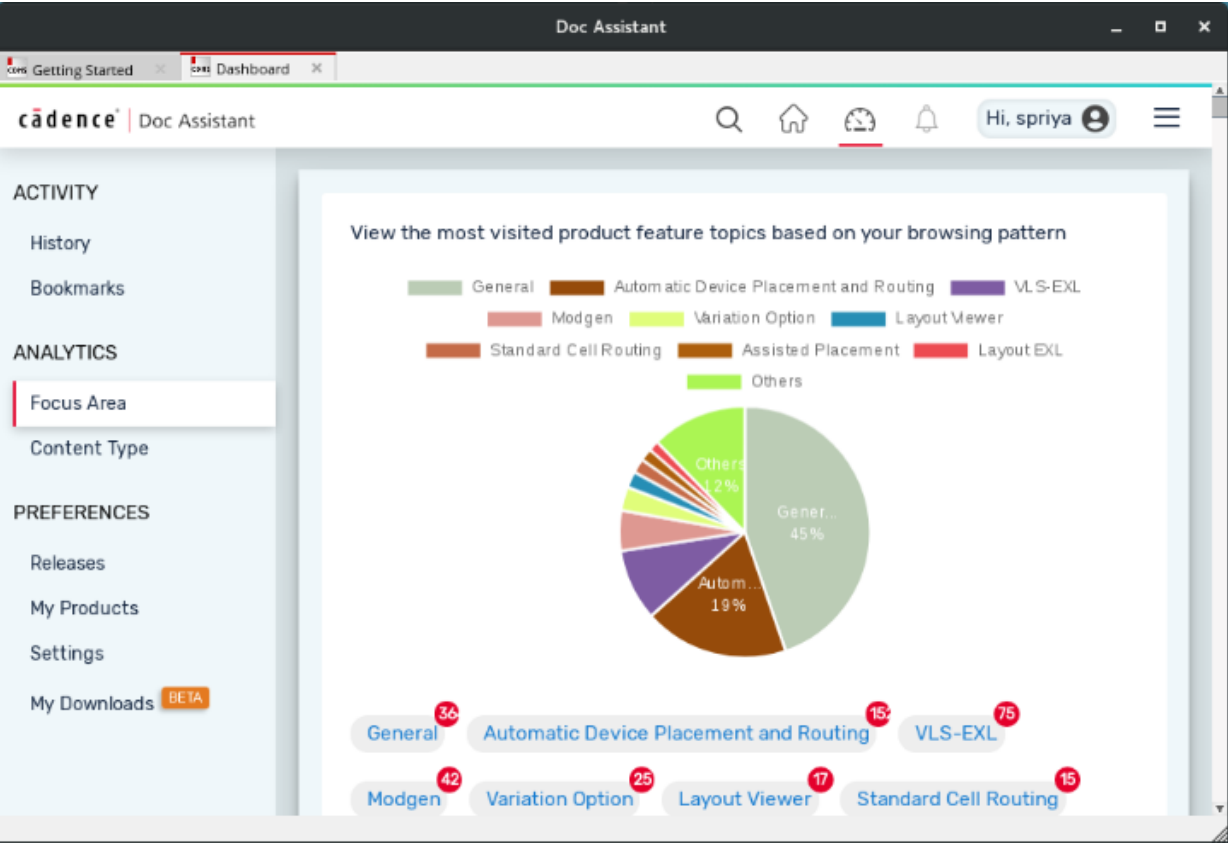
Content Type

This page displays a pie chart of the most visited concept, task, and reference topics. Links to these topics along with the product name and topic type are also displayed in a table.
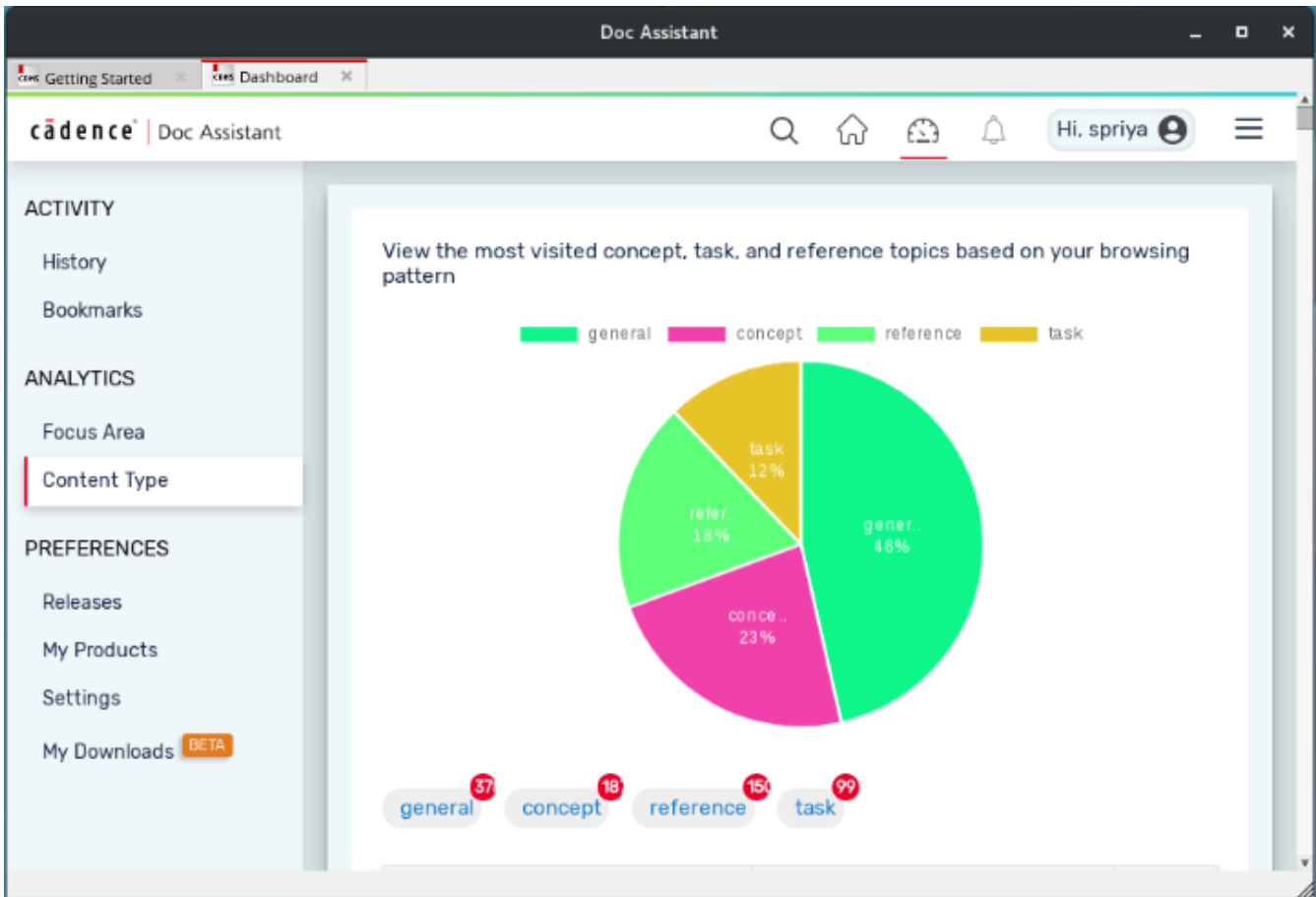
Document Releases

The Doc Assistant, by default, displays documents for the currently active release in your machine. If you are running a tool and accessing the documentation for it, the tool version is considered as the default.

However, you can also access documents from other releases.

To view the default document release, click the *My Dashboard* button on the toolbar and choose *Releases. Default Doc* is initially set to your current release. You can switch to other releases to view their versions of documentation in the Doc Assistant.
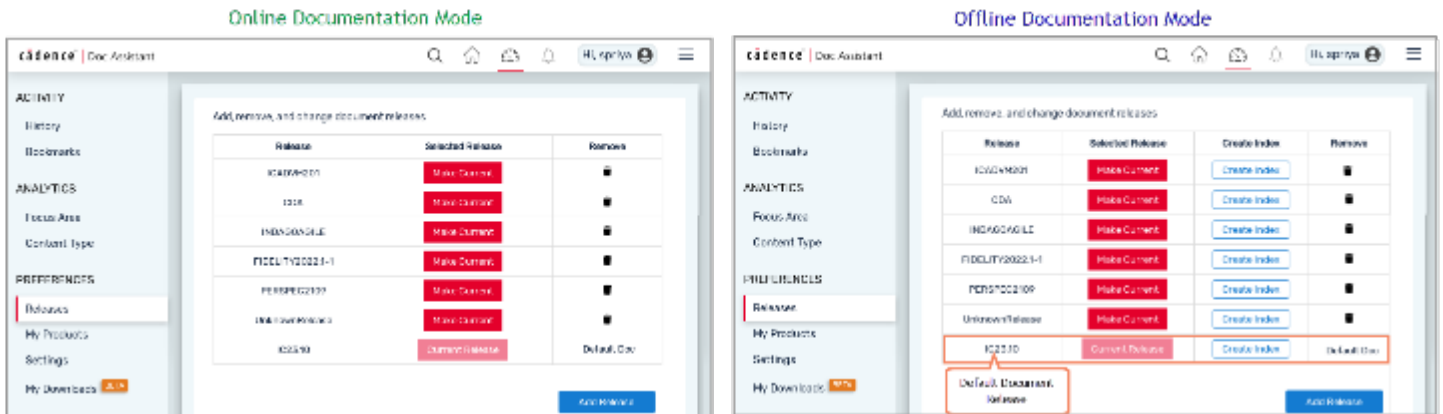
The *Releases* interface for the Online and Offline documentation modes is displayed above. The GUI includes a table that lists the releases for which documentation is available. The table includes the following columns:

- *Releases* provides a list of releases. Hover over the release names to view their doc installation paths.

- *Selected Release* lets you switch between releases. *Current Release* is the release for which documents are currently displayed in the Doc Assistant. To change the release, click *Make Current* for the required release. If the index of the selected release is not available, a relevant message is displayed and indexing is triggered for that release before loading the documents.

- *Create Index* is available only in Offline mode. This option lets you creates a search index for the offline documents that available in your installation directory.

- *Remove* lets you delete release listings.

You can add or remove doc releases from this list. See Adding Documents from Other Releases.

Adding Documents from Other Releases

The Doc assistant, by default, displays documents for your currently active release. However, you can also access documents from other releases. To do this, you need to first add the required release to the list of *Releases*.

To add a release:

1. Click *Add Release* on the *Releases* page of *My Dashboard*.

2. Browse and select a document directory.

3. Click *Choose*.
   The selected document directory is added to the Releases list.

To set another release as a the current release, click *Make Current* corresponding to the release. When you restart Doc Assistant, the default document release will be set as the current release.

Loading Document Libraries

Document libraries from other locations can be configured to make them visible to those who are accessing Doc Assistant from a particular location. For this, create a `help.ini` file at the following location:

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

Pre-Defined Document Libraries

```
To load a pre-defined set of libraries, add the following to the help.ini file:
```

```
[library]

<installation_directory1>/doc/xmlreg/lnx86/library.lbr

<installation_directory2>/doc/xmlreg/lnx86/library.lbr
```

If Doc Assistant is installed on a network location, you might have more than one user accessing Doc Assistant. If multiple users need to access different document libraries, you can set a CDS_SITE environment variable that points to a common *help.ini* file and specify multiple libraries in this file. The CDS_SITE environment variable ensures that all the libraries in the *help.ini* file can be accessed by more than one user accessing Doc Assistant installed on a network location.

Document libraries in environment variables

- Adding libraries in the PATH variable

  If your Doc Assistant installation location is mentioned in the PATH environment variable, you can specify the USE_PATH entry in the *help.ini* file in a new line. This enables Doc Assistant to load all the document libraries from the hierarchies in the PATH environment.

  > ⊘ You can also specify any *doc* folder paths in the *help.ini* file under this variable to allow Doc Assistant to load the library while launching.

- Loading multiple document libraries

  To load multiple document hierarchies, set the CDA_DOC environment variable as follows:

  - On a Windows machine, set the value of the variable as:

    ```
    "<install_dir1>\doc;<install_dir2>\doc"
    ```

  - On a Linux machine, set the value of the variable as:

    ```
    "<install_dir1>/doc:<install_dir2>/doc"
    ```

My Products

All the products that are installed on your machine appear here. You can select or deselect a product from this list, which will change the order in which content appears in the welcome page, search results, and Cadence Support results.
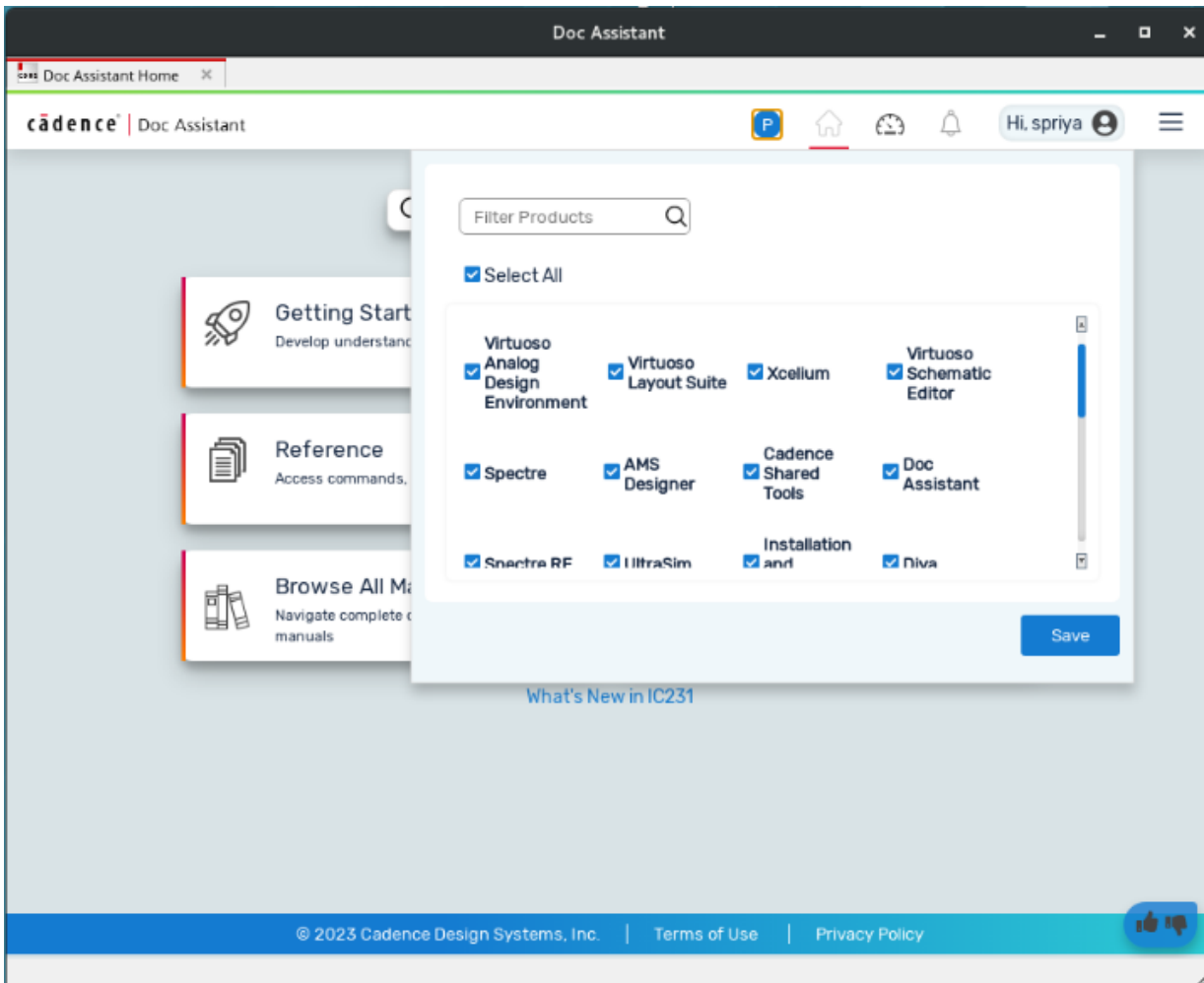
> ⊘ You can also change products from 🅿 icon that is displayed when you are on the Doc Assistant welcome page.

Doc Assistant Settings

You can modify Doc Assistant settings from this page. You can also open this page from the *Settings* button in the hamburger menu. You can change the font settings, configure a proxy server, specify a web browser to open HTTP URLs, and set the indexing behavior.

⊘ You can view this page by clicking the *Setting* button on the Hamburger menu.

Content Display Settings

To change the font style and font size of the content displayed in the topic viewer:

1. Select a font style from the *Font Style* drop-down list.

2. Select a size from the *Font Size* drop-down list. A preview is displayed in the *Preview* section.

3. Unselect *Do not Preserve Spaces and Line Break* to reduce line spaces and line breaks in content pages. This provides a compact view of the content in the topic viewer.

   Selecting this check box honors all line spaces and line breaks in the source content.

Shutdown/Startup Behavior

Use the following options to control the shutdown and startup behavior of Doc Assistant:

- *Allow APIs to Close the Application*: Closes Doc Assistant whenever the parent application is closed. For example, if Help was launched from a Virtuoso application, closing the application will close the Doc Assistant window. Do not select this check box if you want to keep the Doc Assistant window open even after closing the parent application.

- *Show Product Selection Information on Startup*:

Weblinks

You can configure Doc Assistant to open HTTP links in an external web browser. To set a web browser:

1. Select the *Open Web Links in Browsers* check box.

2. Select a web browser from the *Browser Preference* drop-down list.

Proxy Server

Proxy settings let you manually configure the proxy server for Doc Assistant and are specific to your corporate network. These settings are applicable to LINUX. You can configure these settings if you are unable to access online documents in Doc Assistant.

My Downloads

You can install the latest product documents for a release from this page. To use this feature, ensure that:

- You are connected to the Internet and Online Documentation mode is enabled.

- You are signed in to Doc Assistant.

- You have write permissions to the default document directory located at "`<installation_dir>/doc`".

- The current online and default offline releases are the same. To synchronize the releases, open the *Libraries* tab of the Doc Assistant dashboard and locate the *Default Doc* library. Click *Make Current* to set it as the current library.

For more information about signing in, refer Signing In to Doc Assistant.

By default, the *Product Name* column lists all products for which documents are configured to be displayed on your machine. See My Products for information about customizing this list. The *Update Status* column shows the download status.

To download and install updated documents:

1. Select a release from the *Product Name* column

2. Click *Download and Install Update*.
   The updated documents will be downloaded and automatically installed.
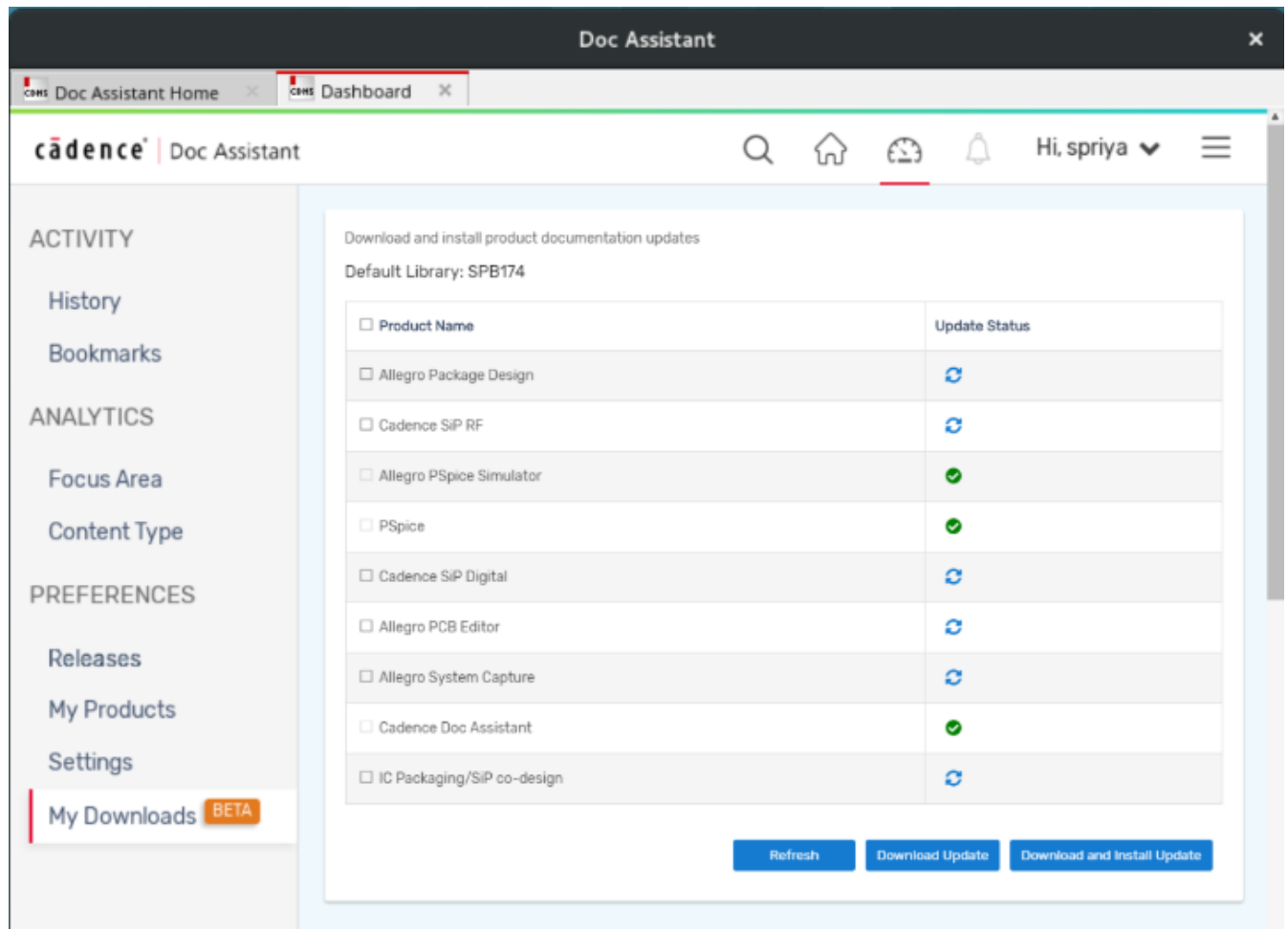
To download the updated documents and install them later:

1. Select a release from the *Product Name* column.

2. Click *Download Update*.
   After the download is complete, a notification is displayed in the *Notifications* list.

3. Click the notification to install the downloaded documents.

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Doc Assistant Known Problems and Solutions

CCR 2549352: Low space in the home directory results in multiple issues with Doc Assistant

Description: Some of the following issues might be observed if there is not enough free space in the home directory:

- Doc Assistant exits unexpectedly

- Doc Assistant hangs after launch

- Displayed content is distorted

- A blank page is displayed

Solution: To resolve these issues, set the CDA_DISABLE_CACHE environment variable to True.

CCR 2757746: On switching from TA to Doc Assistant, Doc Assistant goes offline

Description: Doc Assistant is launched in the Offline mode even if the CDA_OFFLINE environment variable is not set.

Solution: Try to relaunch Doc Assistant after deleting all the files and directories from the $HOME/.config/cadence directory.

CCR 2756750: Online mode not available in the Doc Assistant standalone launch

Description: In Doc Assistant, when you switch from Offline Documentation mode to Online

Documentation mode, an error message is displayed that states that the release is not available on the Doc Assistant servers. Doc Assistant fails to launch in Online Documentation mode.

Solution: The release you are using is not available on the Cadence documentation production server. Contact your system administrator or your Cadence customer support representative for more information.

CCR 2780674: Opening Task Assistant makes the Doc Assistant go Offline

Description: When a user guide is opened by clicking a link in a Task Assistant, the Doc Assistant interface automatically switches to Offline documentation mode.

Solution: Task Assistant works only in Offline documentation mode. Therefore, Doc Assistant is launched in Offline documentation mode when accessed from the Task Assistant. On closing Task Assistant, the Doc Assistant automatically returns to its previous documentation mode.

At any point, you can switch on the *View Documentation Online* option in the Hamburger menu to switch to Online documentation mode.

FUSION-1818: An ambiguous warning flags in the CIW on opening a help form.

Description: When Doc Assistant is launched from Virtuoso, at certain times, the Doc Assistant opens and the relevant topic is displayed. However, the following error is displayed in the CIW.

WARNING obShowTag for tool "Command_Interpreter", tag "ciw" (version "") failed, status 1 = obcViewerNotRespondingERROR (HELPAPI-002): Help viewer is not responding.Warning No help found for help symbol ciw

Solution: This issue is noticed predominantly in slow machines with low specifications. The recommended configuration is a 4 Core CPU and 16GB RAM. Also ensure that there are no additional users sharing the ephemeral port.

FUSION-1892: The | (pipe) special character is not working in search in Offline documentation mode

Description: Adding a pipe symbol in the search string does not give the intended results.

Solution: Currently, there is no solution or workaround for this issue.

Doc Assistant User Guide
Doc Assistant Known Problems and Solutions--FUSION-1911: The Hamburger menu is hidden when
Doc Assistant is zoomed in while the topic viewer is opened

FUSION-1911: The Hamburger menu is hidden when Doc Assistant is zoomed in while the topic viewer is opened

Description: The Hamburger menu does not appear when the Doc Assistant window is zoomed in to higher values, for example, 160%.

Workaround: Currently, there is no solution or workaround for this issue.

FUSION-1952: No "featured" tagged results in the online search for topic categorized sections

Description: Featured results display in the topic-based tiles but their tag does not appear next to the topic title

Workaround: This bug will be fixed in an upcoming release.

FUSION-2152: Running text link (to PDF) is not opening in Windows for offline mode

Description: Hyperlinks pointing to a PDF document does not work correctly when you're in offline mode.

Workaround: Access the PDF document from the documentation hierarchy by browsing manually.

CCR 2791272: * with less than 3 characters is not giving proper results

Description: Search keywords that include the * wildcard character and are less than three characters in length, for example, co*, do not retrieve the required search results.

Workaround: Ensure that search keywords with the * wildcard include at least three characters, for example, conf* instead of co*.

CCR 2791282: Windows Scaling issue in Doc Assistant

Description: In Windows, when the scaling is increased, for example, to 150%, the Dashboard, Bookmarks, and a few other options in the Doc Assistant are not visible.

Workaround: Reduce the scaling to 100% and re-open the Doc Assistant. Alternatively, you can update the Doc Assistant application properties.

1. Right-click the Doc Assistant application (`cda.exe`).

2. Choose *Properties*.

3. Open the *Compatibility* tab.

4. Click *High DPI Settings*.

5. Select *Override high DPI scaling behavior*.

6. Select *Application* from the *Scaling performed by* drop-down list.

7. Click *OK*.

8. Relaunch Doc Assistant.

CCR 2629988: Manually configuring the proxy server for Doc Assistant not working

Description: Manually configuring the proxy server using the Doc Assistant Settings options does not work for the Windows operating system.

Workaround: Proxy settings in the Doc Assistant Settings are specific to your corporate network and are applicable only to LINUX machines. To set up a proxy server connection manually for a Windows machine:

1. Select the *Start* button

2. Choose *Settings*.

3. Select *Network & Internet*.

4. Select *Proxy*.

5. Specify the required proxy settings.

Doc Assistant User Guide
Doc Assistant Known Problems and Solutions--CCR 2642427: Download status is not updated even
after download is complete

CCR 2642427: Download status is not updated even after download is complete

Description: In certain situations, the download and installation statuses of documents are not updated dynamically during the operation.

Workaround: Click the *Refresh* button in the My Downloads page to view the updated status.

CCR 2781876: Cadence doc assistant; Render process crash 'Render process exited with code; 5 Do you want to reload the page?'

Description: In Virtuoso, accessing the Doc Assistant from the tool *Help* buttons displays the following error message:

Render process exited with code:5Do you want to reload the page?

Workaround: Set the following SHELL environment variable before launching Doc Assistant:

setenv QTWEBENGINE_CHROMIUM_FLAGS "--single-process"

Open a Virtuoso session and run Doc Assistant from the *Help* menu, for example, in the CIW, select *Help—User Guide*. Doc Assistant appears.

CCR 2805697: Open Weblinks in Browsers setting cannot be updated in Offline mode

Description: The *Open Weblinks in Browsers* setting is not saved when changed in Offline mode.

Workaround: This issue is noticed only in Offline mode. Currently, there is no solution or workaround for this issue.

CCR 2815598: Websocket (505) error continues to come up (on certain machines) even after cleaning

Doc Assistant User Guide
Doc Assistant Known Problems and Solutions--CCR 2834299: Doc Assistant 1.01: A new tab opens
when the tab bar is double-clicked

up cache

Description: Doc Assistant will give Error (505): No data received. Could not establish Websocket connection.

Workaround: This issue is noticed only in Offline mode. As a workaround user can use Doc Assistant in Online mode or try the following steps.

User can click the Refresh button in the Websocket error (505) page to reload the page. When the error does not go away even after clicking the Refresh button, then perform the steps to remove the following folders

1. Remove the C:\Users\<login>\.config\cadence folder
2. Remove the C:\Users\<login>\AppData\Local\cadence folder

CCR 2834299: Doc Assistant 1.01: A new tab opens when the tab bar is double-clicked

Description: When you double-click the tabbed region in the Doc Assistant, a new blank tab opens.

Workaround: Currently, there is no solution or workaround for this issue.

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Launching Doc Assistant from Command Line

You can launch Doc Assistant using command line switches.

To launch Doc Assistant from the command line, navigate to
the `<doc_assistant_install_directory>/bin` directory and run the `cda` command with the following
switches:

search

Use this switch to launch Doc Assistant with the search results of the matching searched term
specified in the command.

```
cda -search <search_term>
```

Example

```
cda -search cadence
```

tool

Use this switch to launch Doc Assistant with the specified product selected in the *My Products* list.

```
cda -tool "<product name>"
```

Example

- `cda -tool "PCB Editor"`

- You can also specify multiple products separated by commas. For example:
  ```
  cda -tool "Allegro PCB Editor,Allegro System Capture"
  ```

> Product names are case-sensitive.

`openpage`

Use this switch to launch Doc Assistant with the specified HTML file open.

```
cda -openpage "<tool_name>:<html_file_name>"
```

```
cda -openpage "<tool_name>:<tag_name>"
```

Where:

- `<html_file_name>`: Name of the HTML file of the book.

- `<tag_name>`: Name of the tag in the .tgf file.

Example

```
cda -openpage cdadoc:cdadocTOC
```

```
cda -openpage cdadoc:default
```

hierarchy

Use this switch to launch Doc Assistant with the specified document libraries added to the *My Dashboard - Libraries* page. You can also specify multiple paths separated by a colon (:).

```
cda -hierarchy "<doc_path_1>/xmlreg/library.lbr:<doc_path_2>/xmlreg/library.lbr"
```

> The first specified document library is set as the current document library.

Example

```
cda -hierarchy "/spb174/doc/xmlreg/library.lbr:/spb172/doc/xmlreg/library.lbr"
```

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Doc Assistant Environment Variables

Environment Variable	Description
CDA_ENABLE	To make Doc Assistant the default documentation tool for all help calls, set the value of the CDA_ENABLE environment variable to `true`. This is useful when both Cadence Help and Doc Assistant are installed and Cadence Help is the default help viewer.
CDA_EXE_CUSTOM_PATH	In case your tool's installation and Doc Assistant installation are in different directories, set the CDA_EXE_CUSTOM_PATH environment variable to point to the directory where Doc Assistant is installed.
CDA_OFFLINE	To make Offline Documentation the default mode when Doc Assistant is launched: • Set the CDA_OFFLINE environment variable to `true`. • Specify the CDA_OFFLINE variable in the *help.ini* file in a new line.
CDA_HOME_AUTOINDEX	On a Linux machine, if you don't have write permissions to the Doc Assistant install directory, set the CDA_HOME_AUTOINDEX environment variable to `true` to create the search index in the user home directory.
CDA_DISABLE_HOME_AUTOINDEX	On a Windows machine, Doc Assistant creates a search index in the user home directory by default. To disable this behavior, set the CDA_DISABLE_HOME_AUTOINDEX environment variable to `true`.

CDA_API_DEBUG	Set the value of the `CDA_API_DEBUG` environment variable to `debug` to log Doc Assistant API debug information to the `CDA_API_log.txt` file in the `$HOME/.config/cadence` directory.
CDA_DEBUG	Set the value of the `CDA_DEBUG` environment variable to `debug` to log the Doc Assistant debug information to the `cdaLogger.txt` file in the `$HOME/.config/cadence` directory.
CDA_NOHIGHDPI	When you use a 4K or higher resolution monitor, to avoid any issues with the text and images displayed in Doc Assistant, set the CDA_NOHIGHDPI environment variable to `true`.
CDS_SITE	If Doc Assistant is installed on a network location, you might have more than one user accessing Doc Assistant. If multiple users need to access different document libraries, you can set a CDS_SITE environment variable that points to a common *help.ini* file and specify multiple libraries in this file. The CDS_SITE environment variable ensures that all the libraries in the *help.ini* file can be accessed by more than one user accessing Doc Assistant installed on a network location.
USE_PATH	If your Doc Assistant installation location is mentioned in the PATH environment variable, you can specify the USE_PATH entry in the *help.ini* file in a new line. This enables Doc Assistant to load all the document libraries from the hierarchies in the PATH environment.

CDA_DOC	To load multiple document hierarchies, set the CDA_DOC environment variable as follows:
	• On a Windows machine, set the value of the variable as:
	`"<install_dir1>\doc;<install_dir2>\doc"`
	• On a Linux machine, set the value of the variable as:
	`"<install_dir1>/doc:<install_dir2>/doc"`

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Task Assistant Interface in Doc Assistant

For certain tools, the standard help access points, such as a *Help* button or **[?]** icon or the *Help* menu in a UI might open the Task Assistant interface instead of Doc Assistant. Task Assistant is a light-weight help tool to provide a quick overview of the tasks in the context of an action you are currently performing.

In the following example, the **[?]** button on the Auto P&R assistant launches the Auto P&R Help Assistant window, which is a Task Assistant window.
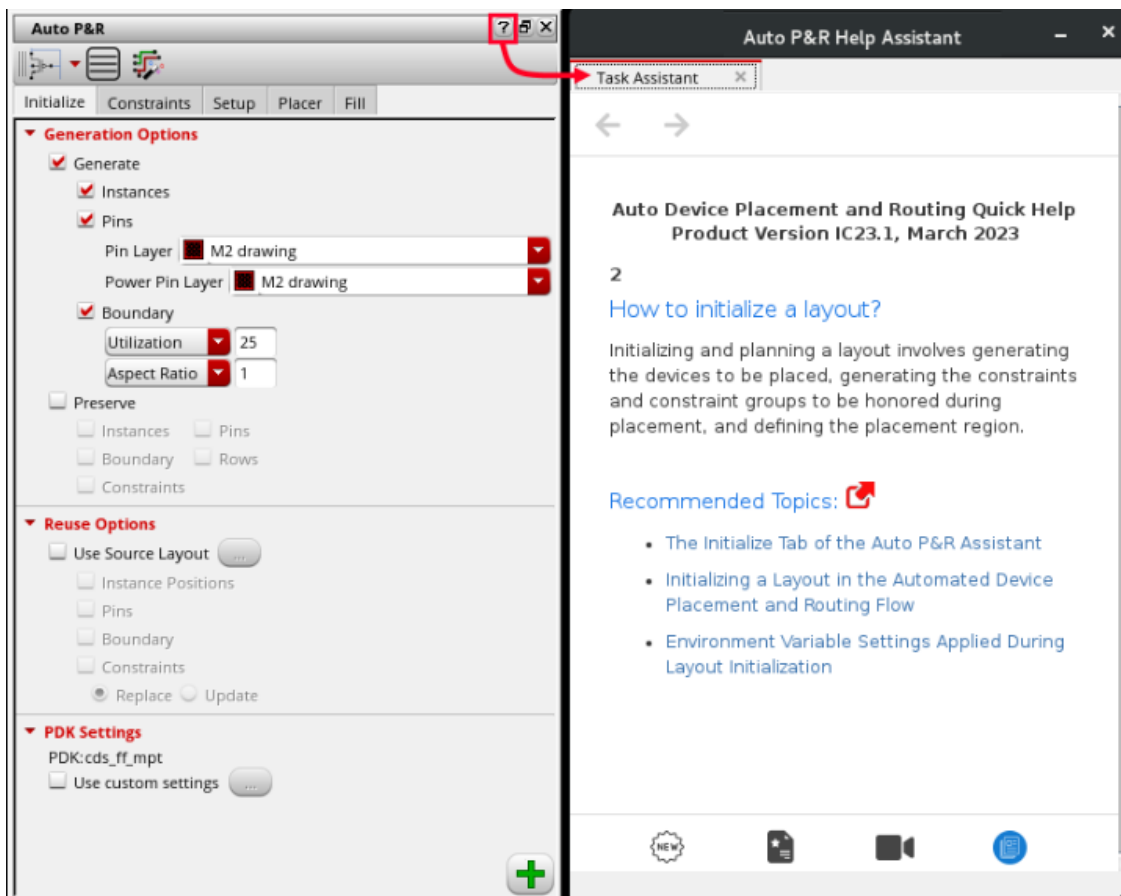
The Task Assistant interface includes links to the product user guide. Click a link to open the user guide in the Doc Assistant interface.
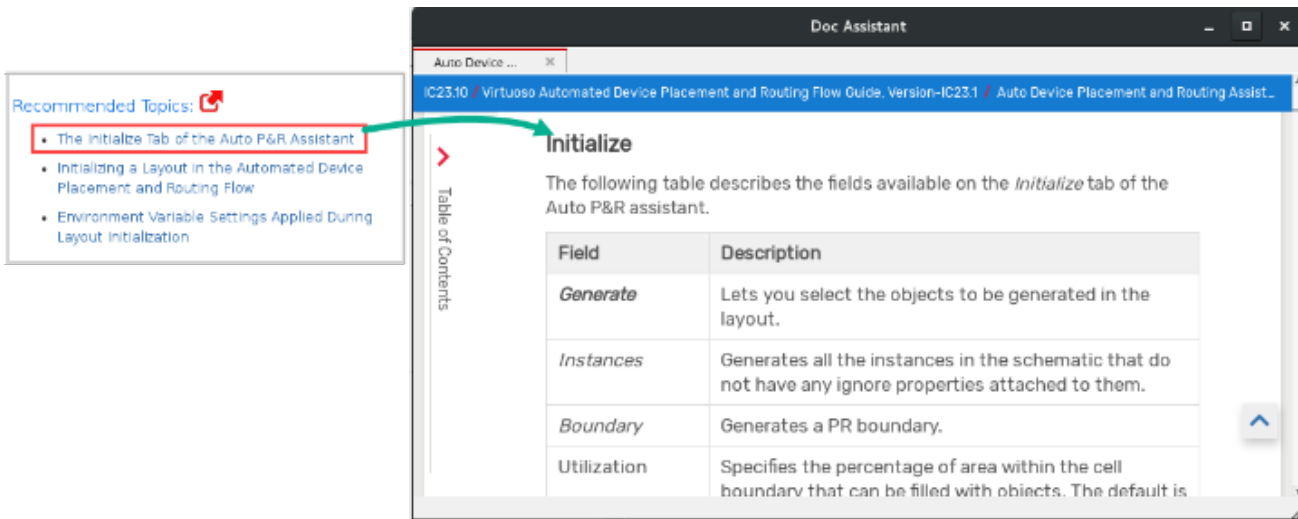
To return to the Task Assistant interface from In the Doc Assistant interface, scroll to the top of the page and click .

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Opening Custom Help Forms in Doc Assistant

You can create personalized SKILL GUI objects (forms and windows) to work with Cadence tools. To include the related help documents for such GUI objects in Doc Assistant:

1. **Set an application name and a tag name for the GUI object:** The Cadence tool passes these names to the Doc Assistant. These names are used to look up for the document to be opened.
   Examples:
   The SKILL code for a graphics window is:
   ```
   hiCreateWindow('default "graphics" "myApp" "myWindowTag")
   ```
   Here, `myApp` is the application name and `myWindowTag` is the tag name for this window.
   The SKILL code for a form is:
   ```
   hiCreateAppForm( ?help '("myApp" "myFormTag")

   ...)
   ```
   Here, `myApp` is the application name and `myFormTag` is the tag name for this form.

2. **Create a local document directory `install_dir/local/doc`:** This directory holds the document files. Here, `install_dir` is the directory where you installed the Cadence software. Doc Assistant searches for the required documents in `install_dir/local/doc` followed by `install_dir/doc`, where the Cadence user manuals are installed.

3. **Create the required HTML documentation files and save them to the `install_dir/local/doc directory`:** For example, you can create `local/doc/myDocument/myDocument.html`. To open an HTML document from a specific location, place a `<a name="anchorname"> </a>` anchor in the HTML code at that location. If a document resides in `local/doc`, you can add tags to the HTML document so that it appears in the documentation browser.

4. **Create a directory in `local/doc` that matches the tool application name.** For example, you can create the directory `local/doc/myApp`.

5. **Create a tag file:** In the `local/doc/application_name` directory, create an

`application_name.tgf` file. This is a simple ASCII file.

For example, you can create an ASCII file `local/doc/myApp/myApp.tgf`.

6. **Add a list of pointers to the tag file:** In the tag file, include a list of pointers to each function tag name and the path to the HTML file to be opened when the user clicks *Help*.
Entries in each line of the tag must be in the following format:

`tagname path_to_document optional_anchorname filetype`

Examples:

Include the following in `myApp.tgf`:

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

Here, Doc Assistant first looks in the standard document directories for a directory named `myDocument`. "" indicates that there is no `<a name="anchorName"></a>` to jump within `myDocument.html`.

To anchor a point `<a name="myFormAnchor"></a>` in your document, include the following in `myApp.tgf`:

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

If you have placed your documentation in a directory outside the Cadence hierarchy, you must enter the complete path name to the directory or a path name relative to the `install_dir/doc` directory. If the document is located in `/usr1/customDocs/myDocument`, the tag entry includes:
`myFormTag /usr1/customDocs/myDocument/myDocument.html "myFormAnchor" HTML`

The previous steps outline the procedure to create a document in `install_dir/local/doc` that is readable to all users who use your Cadence installation.

To ensure that a document is visible only to you, create it either in your `$HOME` directory (on LINUX) or in the `%userprofile%\doc` directory (on Windows), rather than in `local/doc`. The argument used to point to this directory in the tag `$dirname` is the same in either case.

Related Topics

Working with a Tag File

Documentation Lookup Order

How to use CSF search mechanism

Working with a Tag File

Applications that display help in Doc Assistant use a tag file with the .tgf extension to identify which file to open when a *Help* button is clicked. A tag file points to specific documents. To point a *Help* button to custom documents, you need to create the tag file and your documents. Each line of a tag file lists the following:

```
tagname docpath linkname filetype
```

- `tagname` is a string output by a Cadence application when you click a *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 ($), Doc Assistant looks for the document at the following locations sequentially.
  Doc Assistant looks for a matching `name/nameTOC.html` file with a specific HTML META value to ensure that the directory name includes a Doc Assistant manual.
  If the path does not have a slash or dollar symbol, it is relative to the `doc/manualdir` path containing the tag file.

- `linkname` is the text of the HTML `<A NAME>` anchor to which Doc Assistant jumps. In HTML, the syntax of an `<A NAME>` anchor is as given below:

  ```
  <a name="uniqueID">text to be marked with anchor</a>
  ```

  where `uniqueID` is any text string that identifies this part of the HTML.

- `filetype` is the file format of the document. Valid file type is HTML (for HTML files used by Doc Assistant).

For non-DFII products, the tag file usually begins with a DEFAULT line. If the requested filename is not found, the DEFAULT entry is used.

The following code fragment depicts a sample tag file:

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

In the above code fragment:

- The first line lists a default document file (`myBookTOC.html`, a table of contents file) to be displayed if the string returned by the Cadence tool is not listed in the tag file. Its path is the same as the tag file directory.

- If the application passes the `tagname CreatePinForm`, Doc Assistant opens the file `chap1.html` in the tag file directory, and then jumps to the `<A NAME>` anchor with the string createpin.

- If the application passes the `tagname CloseCell`, Doc Assistant opens the file `chap3.html` in the directory `~/doc/dfref`, or `local/doc/dfref`, or `doc/dfref` in that order. Doc Assistant jumps to the `<A NAME>` anchor with the string `CloseCell`.

- If the application passes the `tagname` user guide, Doc Assistant opens the Topic Of Contents of the user guide, from where you can select the required topic file for itself, which lists all the documents so the user can select one.

> Ensure that the tag name and its associated page does not contain the .pdf extension because it is not supported in Doc Assistant.

Determining whether an 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 directory for a file named *manualname*`.tgf`.

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

For most (not all) Design Framework II® applications, the help tag file is 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 find tag file by following the following method:

The application searches for the document directory (or a subdirectory containing that directory) in your doc hierarchy, in the following sequence mentioned here.

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

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

2. The application searches for the `helpAppID/helpAppID.tgf` file.

> Doc Assistant does not allow tag names having a pdf file to support open pdf files functionality. Avoid using any extensions in the tag file names other than .html.

Modifying a document and tag file

To change a pointer in a tag file to jump to a different anchor in a custom document or to a file you added to the custom hierarchy:

1. Add or change HTML anchors in the help files

2. Find the help symbol used by the form or window to locate the help files

3. Edit the .tgf pointer file that maps help symbols to HTML anchors

Adding or changing HTML Anchors

Doc Assustant 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, 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:
`<A NAME="uniqueID">` text at the beginning of a section you want to jump to `</a>`.
Here, `uniqueID` is any text string unique to this NAME element.

Finding the Form or Window Help Symbol

The tag files map application help symbols to specific help filenames. Clicking on a *Help* button in that application form 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 can look through the tag file for the document used by that application to see which files are called. By viewing the section where an anchor is placed, you can determine the form or window jumps to that page. Then you can look for that document file and anchor name in the tag file.
For a DFII application, use the following steps to determine what help symbols and tag files are used by a specific form or window.

1. Open the custom form or custom window for which Help is customized.

2. Type the following in the Command Interpreter Window (CIW):

    ```
    helpDebug=t
    ```

3. Click the custom form or custom window *Help* button.

A report is displayed in the CIW in the following format:

```
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"
```

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

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

If `helpDebug()` does not find a symbol, add the help symbol to any tag files it the searched list.

Resolving Missing or Invalid Entries in a Tag File

If an entry cannot be found or does not exist in a tag file, Doc Assistant launches the
`manualname.xml` file found in the document directory. The document is displayed in the
Documentation Browser of Doc Assistant.

This occurs if a DEFAULT tag is found in the tag file that points to the `manualname.xml` file.

Documentation Lookup Order

Doc Assistant looks through some pre-defined locations to find the documentation for Cadence help
forms and user created custom help forms. These location and order in which they are processed to
show the documentation are mentioned below.

Doc Assistant lookup order for Cadence help forms

1. Doc Assistant looks in the first specified document library in -hierarchy argument.

2. Doc Assistant looks in the <doc_assistant_install_directory>/doc directory.

Doc Assistant lookup order for custom/user-created help forms

1. Doc Assistant uses the CSF mechanism to load the help documentation.

   > This feature in not available on Windows platform.

2. Doc Assistant looks in the <doc_assistant_install_directory>/local/doc directory.

3. Doc Assistant looks in the $HOME/doc directory.

   > In windows Doc Assistant looks in %userprofile%\doc directory.

How to use CSF search mechanism

Doc Assistant uses the CSF search mechanism to open documentation from custom/user-created help forms. User needs to define their tag files and directory in which these files exist in the way as explained below.

1. User creates custom help documentation html/s.

2. User creates <My_Helpdoc>.tgf file which contain entries to custom help documentation html/s mentioned in point 1 according to the format specified in Working with a Tag File

3. The help documentation html/s and related <My_Helpdoc>.tgf file should be placed in <My_Helpdoc> directory.

4. <My_Helpdoc> directory should be placed inside doc directory so directory structure looks like <ANY_PATH>/doc/<My_Helpdoc>/...

5. User can have multiple <My_Helpdoc> like directories in doc folder corresponding to different help forms.

6. Create a csfLookupConfig named ASCII file which contain entries of all <MY_Helpdoc>.tgf files as
   INCLUDE <MY_Helpdoc1>.tgf
   INCLUDE <MY_Helpdoc2>.tgf
   ..

..

..

7. In the setup.loc file located in <INST_DIR>/share/cdssetup/setup.loc add the path where csfLookupConfig file created in above point is located. Also add the path of all <My_Helpdoc> directory in the setup.loc file as
<ANY_PATH>/doc/<My_Helpdoc1>
<ANY_PATH>/doc/<My_Helpdoc2>

..

..

8. When user calls a non Cadence supplied <tool>:<tag> from custom help form, it should now use the CSF mechanism to find the <tool>.tgf file and then open the corresponding html entry against that <tag> entry in the <tool>.tgf file.

Alternatively user can also place such created <MY_Helpdoc> directory under the other two locations for custom/user-created documentation if user don't want to use CSF mechanism.

User must place his documentation in

1. `<doc_assistant_install_directory>/local/doc` directory.

2. `$HOME/doc` directory OR `%userprofile%\doc` directory for Windows.