



Guidewire PolicyCenter™

Product Designer Guide

Release 10.1.2

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Guidewire Documentation

About PolicyCenter documentation

The following table lists the documents in PolicyCenter documentation:

Document	Purpose
<i>InsuranceSuite Guide</i>	If you are new to Guidewire InsuranceSuite applications, read the <i>InsuranceSuite Guide</i> for information on the architecture of Guidewire InsuranceSuite and application integrations. The intended readers are everyone who works with Guidewire applications.
<i>Application Guide</i>	If you are new to PolicyCenter or want to understand a feature, read the <i>Application Guide</i> . This guide describes features from a business perspective and provides links to other books as needed. The intended readers are everyone who works with PolicyCenter.
<i>Upgrade Guide</i>	Describes the overall upgrade process, and describes how to upgrade your configuration and database. The intended readers are implementation engineers who must merge base application changes into existing application extensions and integrations.
<i>Configuration Upgrade Tools Guide</i>	Describes the tools and functionality provided by the Guidewire InsuranceSuite Configuration Upgrade Tools. The intended readers are implementation engineers who must merge base application changes into existing application extensions and integrations. Visit the Guidewire Community to access the <i>Configuration Upgrade Tools Guide</i> , which is available for download, separately from the main documentation set, with the Configuration Upgrade Tools.
<i>Installation Guide</i>	Describes how to install PolicyCenter. The intended readers are everyone who installs the application for development or for production.
<i>System Administration Guide</i>	Describes how to manage a PolicyCenter system. The intended readers are system administrators responsible for managing security, backups, logging, importing user data, or application monitoring.
<i>Configuration Guide</i>	The primary reference for configuring initial implementation, data model extensions, and user interface (PCF) files for PolicyCenter. The intended readers are all IT staff and configuration engineers.
<i>PCF Format Reference</i>	Describes PolicyCenter PCF widgets and attributes. The intended readers are configuration engineers. See the <i>Configuration Guide</i> .
<i>Data Dictionary</i>	Describes the PolicyCenter data model, including configuration extensions. The dictionary can be generated at any time to reflect the current PolicyCenter configuration. The intended readers are configuration engineers.
<i>Security Dictionary</i>	Describes all security permissions, roles, and the relationships among them. The dictionary can be generated at any time to reflect the current PolicyCenter configuration. The intended readers are configuration engineers.
<i>Globalization Guide</i>	Describes how to configure PolicyCenter for a global environment. Covers globalization topics such as global regions, languages, date and number formats, names, currencies, addresses, and phone numbers. The intended readers are configuration engineers who localize PolicyCenter.
<i>Rules Guide</i>	Describes business rule methodology and the rule sets in Guidewire Studio for PolicyCenter. The intended readers are business analysts who define business processes, as well as programmers who write business rules in Gosu.
<i>Guidewire Contact Management Guide</i>	Describes how to configure Guidewire InsuranceSuite applications to integrate with ContactManager and how to manage client and vendor contacts in a single system of record. The intended readers are PolicyCenter implementation engineers and ContactManager administrators.
<i>Best Practices Guide</i>	A reference of recommended design patterns for data model extensions, user interface, business rules, and Gosu programming. The intended readers are configuration engineers.
<i>Integration Guide</i>	Describes the integration architecture, concepts, and procedures for integrating PolicyCenter with external systems and extending application behavior with custom programming code. The intended

Document	Purpose
	readers are system architects and the integration programmers who write web services code or plugin code in Gosu or Java.
<i>REST API Client Guide</i>	Describes how to use the InsuranceSuite REST API Client to make outbound HTTP calls to internal or third-party REST services.
<i>Java API Reference</i>	Javadoc-style reference of PolicyCenter Java plugin interfaces, entity fields, and other utility classes. The intended readers are system architects and integration programmers.
<i>Gosu Reference Guide</i>	Describes the Gosu programming language. The intended readers are anyone who uses the Gosu language, including for rules and PCF configuration.
<i>Gosu API Reference</i>	Javadoc-style reference of PolicyCenter Gosu classes and properties. The reference can be generated at any time to reflect the current PolicyCenter configuration. The intended readers are configuration engineers, system architects, and integration programmers.
<i>ISBTF and GUnit Testing Guide</i>	Describes the tools and functionality provided by InsuranceSuite for testing application behavior during an initial implementation or an upgrade. The guide covers functionality related to Behavior Testing Framework, GUnit, and Gosu functionality designed specifically for application testing. There are two sets of intended readers: business analysts who will assist in writing tests that describe the desired application behavior; and technical developers who will write implementation code that executes the tests.
<i>Glossary</i>	Defines industry terminology and technical terms in Guidewire documentation. The intended readers are everyone who works with Guidewire applications.
<i>Advanced Product Designer Guide</i>	Advanced Product Designer is a tool that helps you, a business user, design, simulate, and deploy an insurance product. The intended readers are business analysts who understand insurance products, business systems analysts who liaise between business analysts and IT, project managers, and IT who provides technical expertise in areas such as programming, testing, and databases.
<i>Product Model Guide</i>	Describes the PolicyCenter product model. The intended readers are business analysts and implementation engineers who use PolicyCenter or Product Designer. To customize the product model, see the <i>Product Designer Guide</i> .
<i>Product Designer Guide</i>	Describes how to use Product Designer to configure lines of business. The intended readers are business analysts and implementation engineers who customize the product model and design new lines of business.
<i>REST API Framework</i>	Describes the Guidewire InsuranceSuite framework that provides the means to define, implement, and publish REST API contracts. It also describes how the Guidewire REST framework interacts with JSON and Swagger objects. The intended readers are system architects and integration programmers who write web services code or plugin code in Gosu or Java.

Conventions in this document

Text style	Meaning	Examples
<i>italic</i>	Indicates a term that is being defined, added emphasis, and book titles. In monospace text, italics indicate a variable to be replaced.	A <i>destination</i> sends messages to an external system. Navigate to the PolicyCenter installation directory by running the following command: <pre>cd installDir</pre>
bold	Highlights important sections of code in examples.	<pre>for (i=0, i<someArray.length(), i++) { newArray[i] = someArray[i].getName() }</pre>
narrow bold	The name of a user interface element, such as a button name, a menu item name, or a tab name.	Click Submit .

Text style	Meaning	Examples
monospace	Code examples, computer output, class and method names, URLs, parameter names, string literals, and other objects that might appear in programming code.	The getName method of the IDoStuff API returns the name of the object.
<i>monospace italic</i>	Variable placeholder text within code examples, command examples, file paths, and URLs.	Run the startServer <i>server_name</i> command. Navigate to <code>http://server_name/index.html</code> .

Support

For assistance, visit the Guidewire Community.

Guidewire customers

<https://community.guidewire.com>

Guidewire partners

<https://partner.guidewire.com>

Introduction to Product Designer

Product Designer is a web-based tool for examining and editing the PolicyCenter product model. You use Product Designer from your web browser to edit PolicyCenter configuration files belonging to a development instance of PolicyCenter.

[Advanced Product Designer versus Product Designer](#)

[See also](#)

- *Advanced Product Designer Guide*

Introduction to the product model

The PolicyCenter product model is central to configuring a line of business. The product model defines the products that insurance companies offer through PolicyCenter. PolicyCenter stores product definitions as patterns and then uses the patterns during the submission process to generate instances of policies or the subcomponents of policies.

The product model provides you with the means to create insurance products that meet the precise needs of your organization, your market, and your customers. The product model enables you to define a product, select a policy line, and offer specific coverages each with specific coverage terms. The product model defines the coverables that each product can cover. For example, an auto policy provides collision and uninsured motorist property damage coverages. A property policy provides fire, contents, and liability coverages.

Lines of business in the base application

The PolicyCenter base application contains reference implementations of several lines of business that you can use to accelerate your own implementation. Each line of business includes reference implementations for jobs, policy file screens, and rating rules, and in some cases, forms and forms inference logic. Some lines also include rules to determine eligibility.

PolicyCenter includes reference implementations of the following lines of business:

- Businessowners
- Commercial Auto
- Commercial Package
- Commercial Property
- General Liability
- Inland Marine

- Personal Auto
- Workers' Compensation

Note: As supplied, the reference implementations of these lines do not constitute compliance systems. Guidewire designed the product model so that you can enhance and expand your implementation through configuration as needed. PolicyCenter can accommodate multiple classifications and many coverages and exclusions per jurisdiction. The reference implementations contain a sample set of these classifications, coverages, and exclusions.

In PolicyCenter, each policy line is a member of at least one product. A *product* is a collection of one or more policy lines. PolicyCenter includes products corresponding to each policy line, plus a Commercial Package Policy product that includes commercial property, inland marine, and general liability.

Product Designer overview

Product Designer enables you to edit those parts of the product model that do not require creating complex data objects or complex programming. The backing data model, code, and PCF pages required to support a line of business must be created by a developer using Guidewire Studio.

Using Product Designer, you can:

- Add new products based on product types that have been defined in Studio.
- Add new policy line patterns based on policy line types that have been defined in Studio.
- Define new coverage categories and coverages, exclusions, and conditions within a policy line, including coverage terms, reinsurance coverage groups, and availability.
- Configure modifiers, including rate factors, state minimums and maximums, and availability.
- Define question sets and questions to assess risk and gather applicant information.
- Define offerings that include or exclude policy lines, coverages, coverage terms, coverage term packages, conditions, exclusions, modifiers, and question sets.
- Configure audit schedules for policy lines that support pre-configured and customer-configured audit types. The pre-configured audit types are Checking Audit, Final Audit and Premium Report.
- Examine and edit system tables that support the business logic of your lines of business.

Installing Product Designer

Product Designer can run in two distinct ways:

- As a single-user, standalone instance, typically on the same computer as the PolicyCenter development server.
- As a multi-user, shared instance, typically on a dedicated computer.

In both cases, Product Designer runs in an application server that enables users to perform all operations within a web browser.

IMPORTANT If you are upgrading from a previous version of Product Designer, then refresh the browser cache by selecting Ctrl+F5 before you run the new version. An error could occur if you do not refresh the browser cache.

Run a single-user instance of Product Designer

About this task

Developers and integration architects typically run Product Designer and Guidewire Studio side-by-side on a single computer that also has a development instance of PolicyCenter. In this scenario, you can simultaneously run both Studio and Product Designer to perform all of the tasks needed to define a line of business.

To run a single-user instance of Product Designer on the same computer as your PolicyCenter development instance, no installation is needed. Product Designer is packaged with the PolicyCenter distribution image and can be run immediately after installing PolicyCenter.

Procedure

1. Navigate to the `productdesigner/bin` directory of your PolicyCenter development instance.
2. Run `launchPD.bat`.

The built-in application server starts in a command window. You must keep this command window open while using Product Designer. Closing the window stops the application server. After the startup script starts the built-in application server, Product Designer opens in your default web browser and displays the **Login** page.

3. Enter your user name and password, and then click **Log In** to display the Product Designer home page.

Guidewire provides a default administrative user named `su` with the default password `gwgw`. Use this account initially to access Product Designer. Guidewire recommends for security reasons that you create a new administrative user and delete the default user. To add and remove users, and designate users as administrators, see “Managing users on Product Designer Users page” on page 30.

Result

Your Product Designer session automatically terminates after 120 minutes of inactivity. This timeout is not configurable when Product Designer is running as a single-user standalone instance. However, because Product Designer continually maintains all of your changes in the active change list until you commit them, after logging in again, none of your work is lost.

Product Designer single-user startup options

When running in single-user mode, the following parameters can be used in the startup script, `launchPD` or `launchPD.bat`.

Parameter	Description
<code>-port=nnnn</code>	TCP port number to assign to the built-in application server. Default: 8780.
<code>-openPageInWebBrowser</code>	Automatically starts your default web browser and opens the Log In page of Product Designer after startup completes. Remove this parameter if you do not want your web browser to start up automatically.

Install a multi-user instance of Product Designer

About this task

In organizations in which business analysts work side-by-side with developers, Product Designer can be deployed on a separate application server and used by multiple people at the same time. Each user makes changes in a private change list, and then submits all changes in the change list at one time. Product Designer warns of conflicts in cases where different users make changes to the same items at the same time.

IMPORTANT For security reasons Guidewire recommends using HTTPS for multi-user Product Designer installations.

Procedure

1. From an instance of PolicyCenter, obtain the `productdesigner.war` file from the `productdesigner/war` directory.
2. Deploy `productdesigner.war` to a web server that can accommodate multiple users.
3. Configure the port on which it runs as needed.
4. Start the Product Designer web application.
5. Start a web browser and navigate to the Product Designer web address that you configured when you deployed `productdesigner.war`.
6. Enter an administrative user name and password, and then click **Log In** to display the Product Designer home page.
Guidewire provides a default administrative user named `su` with the default password `gwgw`. Use this account to initially access Product Designer.
7. Define one or more workspaces.
A workspace is a name reference to the root folder of a PolicyCenter instance. A user selects a workspace when creating a change list to identify the PolicyCenter instance to which changes are to be committed.
8. Create administrative and non-administrative users as needed.
9. Configure version control integration as needed.

Next steps

- For information about adding new workspaces and specifying workspace settings, including version control integration, see “Managing Product Designer workspaces” on page 27.
- For information about adding users, setting user names and passwords, and assigning change lists to users, see “Managing users on Product Designer Users page” on page 30.
- For information about adding new change lists and assigning them to users, see “Managing Product Designer change lists” on page 32.

Product Designer configuration data

By default Product Designer stores its configuration data in a subdirectory of its parent directory:

```
productdesigner\pd-config
```

The configuration data includes information about users, change lists, and workspaces that are associated with this installation of Product Designer. You can choose a different location for the configuration data by editing the `launchPD.bat` file.

```
//default location
set LAUNCH_PD_OPTS=-Dpd.config.folder=..\pd-config
// new location (example)
set LAUNCH_PD_OPTS=-Dpd.config.folder=C:\pd-config
```

Retaining Product Designer configuration data from prior release

If you want to reinstall or upgrade Product Designer but keep the existing configuration data, then create a separate configuration directory outside the PolicyCenter directory structure. After you reinstall or upgrade Product Designer, edit `launchPD.bat` to point to the separate configuration directory.

IMPORTANT Commit your change lists before you reinstall or upgrade Product Designer. If you do not commit your changes then the new installation of Product Designer may not be able to read the existing change lists.

Running Product Designer over SSL

You can run Product Designer over SSL in a single-user instance or a multiple-user instance.

Guidewire also recommends that you configure your operating system’s firewall to prevent external access to the local Product Designer server.

See also

- *System Administration Guide*

Using Product Designer

The following topics explain the basics of how to use Product Designer.

These topics provide general usage information only—they do not explain how to use Product Designer to perform specific tasks such as editing the PolicyCenter product model.

Starting Product Designer

You can run Product Designer on your own computer in a single-user configuration, or your administrator can deploy it on a server in a multiuser configuration.

Start Product Designer in a single-user configuration

About this task

If you are running Product Designer on your own computer in a single-user configuration, you must start it before accessing it from a web browser.

You can run a single-user instance of Product Designer with default settings.

Note: Your Product Designer session automatically terminates after 120 minutes of inactivity. This timeout is not configurable when Product Designer is running as a single-user standalone instance. However, because Product Designer continually maintains all your changes in the active change list until you commit them, after you log in again, none of your work is lost.

Procedure

1. Navigate to the `productdesigner/bin` directory of your PolicyCenter development instance.
2. Run `launchPD.bat`.

Wait while the built-in application server starts in a command window. You must keep this command window open while using Product Designer. Closing the window stops the application server. After the startup script starts the built-in application server, Product Designer opens in your default web browser and displays the **Login** page.

3. Enter your user name and password, and then click **Log In** to display the Product Designer home page.

Guidewire provides a default administrative user named `su` with the default password `gwgw`. Use this account initially to access Product Designer.

Guidewire recommends for security reasons that you create a new administrative user and delete the default user. To add users, remove users, and designate users as administrators, see “Managing users on Product Designer Users page” on page 30.

Start Product Designer in a multi-user configuration

Before you begin

You must have a user name and password to start Product Designer. Contact your system administrator for the URL of your Product Designer server and to obtain a user name and password.

About this task

If you are accessing a shared, multi-user installation of Product Designer, your administrator starts Product Designer and generally keeps it running at all times. Consider creating a shortcut or bookmark in your web browser to simplify access to Product Designer.

Procedure

1. Open your web browser and go to the Product Designer URL (web address).
2. Enter your user name and password, and then click **Log In** to display the Product Designer home page.

Account lockout in Product Designer

If you enter the incorrect user name or password three times in succession, your account is locked for three minutes. You must wait until the lockout period has elapsed before you attempt to log in again.

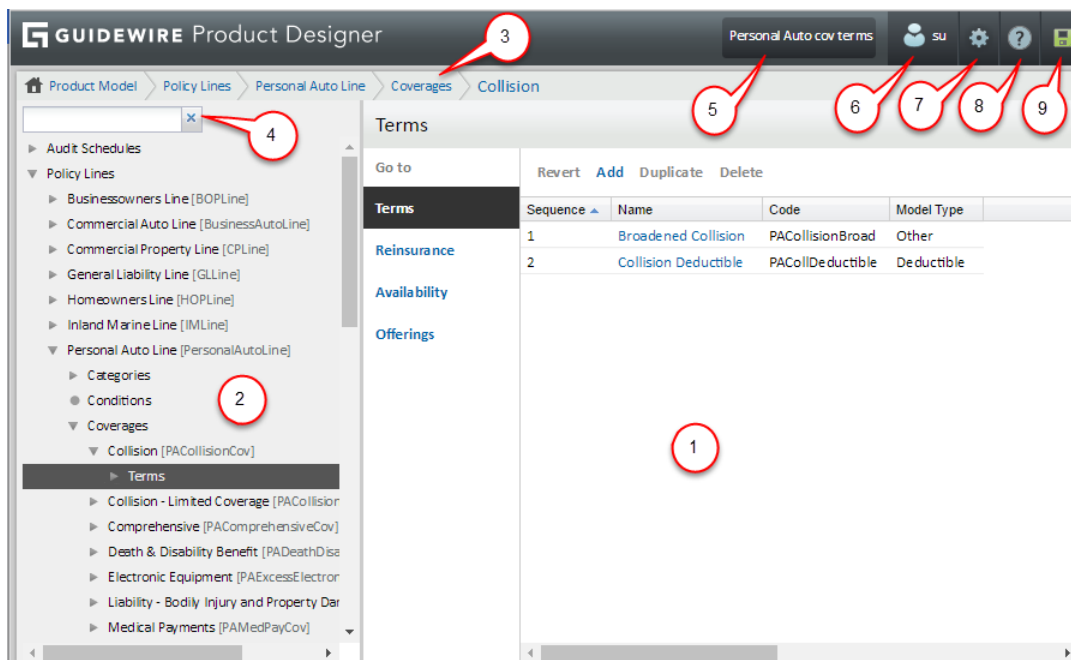
Multiple sessions in Product Designer

If you have an existing session in Product Designer and then attempt to log in with the same user name in a different browser instance, your existing session is disconnected.

It is possible to maintain multiple Product Designer sessions in the same browser instance. However, if you do so, conflicts could occur if you commit changes in multiple browser tabs. Guidewire recommends that you use only one of the tabs for committing changes (edit-only), and use the other tabs for viewing changes (read-only).

Navigating Product Designer

Every Product Designer page has a common set of navigation elements. Some pages have additional controls that are described elsewhere.



Key	Description
1	Typical Product Designer page, in this case, the Terms page.
2	Navigation panel showing expanded section of navigation tree with the Terms branch selected. Use the up and down arrow keys on the keyboard to scroll through the nodes in the Product Model. The corresponding page appears as you press the up and down arrow keys. ► – Node with hidden descendants. Press the right arrow key on the keyboard to expand the node and reveal its descendants. Press the right arrow key again to reveal the page of the first descendant node. ▼ – Expanded node. Press the up or down arrow key on the keyboard to scroll through the list of descendants. The corresponding page appears as you scroll through the list. Press the left arrow on the keyboard to collapse the node and hide its descendants. ● – Node with no descendants. Press the left arrow key on the keyboard to move up to the closest expanded node. Product Designer remembers the collapsed or expanded state for each subsection on a page. For example, if you expand the Advanced subsection on a policy lines page, then that subsection appears expanded on any other page on which it appears. These settings are stored per user, and are retained even if you log out of Product Designer.
3	Breadcrumbs showing hierarchy of objects leading to the current page. Click the rightmost breadcrumbs link to view the parent page. Click any breadcrumbs link to jump directly to the indicated page.
4	Filter box. Type the first characters of a node name. As you type, the filter hides every node in the tree except the nodes whose names or codes begin with the characters you typed. The code is the portion at the end of the label enclosed in square brackets. Note that the filtered tree also shows the parent nodes of each matching item, to help identify its location in the product model. Click the adjacent X to clear the filter and restore all nodes to the tree. Note: If you filter the tree and then add or duplicate a Product Model item, the filter text is removed and the new item is highlighted in the product model.
5	Active change list and change list menu. Displays the name of the active change list. An adjacent down arrow ▼ indicates that multiple change lists are available. Click the drop-down list to select a different change list. The selected change list becomes the active change list. If no arrow appears, the active change list is the only change list assigned to you.
6	User Tools. Click to display the User menu, described in “Product Designer User menu” on page 17.
7	Options. Click to display the Options menu, described in “Product Designer Options menu” on page 18. Contents depend on whether the user is an administrator.
8	Help. Click to open the help panel, which contains information about the current page.
9	Changes. Indicates whether changes have been made to any objects and whether those changes have validation errors by changing as follows:  – You have not made any changes.  – You have made changes. Click the icon to open the Changes panel to view your changes. Expand the Changes panel to view the Changes page where you can commit or revert your changes.  – You have made changes but there are validation errors. Click the icon to open the Changes panel to view the changes and the errors.
10	Go to links. For convenience, click to navigate directly to the associated page. Some of the links under Go to are also available in the navigation tree.

Product Designer User menu

User Settings	Displays the User Settings page where you can change your user name, password, full name, user interface language, and regional formats.
My Changelists	Displays the My Changelists page where you can add and delete change lists, see which of your change lists is active, and reassign change lists to other users.
Log Out	Logs you out of Product Designer and displays the login screen.

Product Designer Options menu

Users	Available only to administrators. Displays the Users page where you can add, edit, and delete users and designate users as administrators.
Changelists	Available only to administrators. Displays the Changelists page where you can add and delete changelists and assign changelists to users.
Workspaces	Available only to administrators. Displays the Workspaces page where you can add and delete workspaces.
Synchronize Product Model	Behavior depends on system configuration. - Administrator has configured a PolicyCenter user name and password – Immediately deploys all committed product model changes - Administrator has not configured a PolicyCenter user name and password – Opens the Synchronize Product Model dialog box. Enter the user name and password of a PolicyCenter user who belongs to a role with soapadmin permissions, and then click OK. Product Designer then deploys all committed product model changes. Product Designer deploys to the Test Server all committed product model changes from all users that correspond to the workspace associated with your active change list. The Test Server, configured by an administrator when the workspace is defined, can be different from the PolicyCenter instance to which you commit your change lists. After deploying the new product, it is immediately available in the PolicyCenter Submission Manager. Note: Synchronizing the product model when another submission is in progress causes errors and will not complete. See “Synchronizing error if a submission is in progress” on page 18.
Synchronize System Tables	Behavior depends on system configuration. - Administrator has configured a PolicyCenter user name and password – Immediately deploys all committed system table changes - Administrator has not configured a PolicyCenter user name and password – Opens the Synchronize Product Model dialog box. Enter the user name and password of a PolicyCenter user who belongs to a role with soapadmin permissions, and then click OK. Product Designer then deploys all committed system table changes. Product Designer deploys to the Test Server all committed system table changes from all users that correspond to the workspace associated with your active change list. Note: The Test Server is configured by an administrator when the workspace is defined, and can be different from the PolicyCenter instance to which you commit your change lists.
About Product Designer	Displays the About Product Designer dialog box, which includes the Product Designer version number.

Synchronizing error if a submission is in progress

PolicyCenter throws a `ClassCastException` and stops responding if you synchronize the product model from Product Designer while a submission policy transaction is in progress. To recover from this state, you must restart the PolicyCenter server.

To avoid this exception, do not synchronize the product model while a submission is in progress. Instead, navigate to a screen outside any policy transaction, such as the **Account Summary** screen, before synchronizing the product model.

Alternatively, enable internal debug tools by setting `EnableInternalDebugTools` to `true` in `config.xml`. Then, after synchronizing the product model and prior to performing any operation in PolicyCenter, press `Alt+Shift+L` to reload PCF files.

Product Designer User Settings page

Manage your user settings by using the following fields.

User Name	Name to use when logging in to Product Designer. You can change your own user name at any time.
Full Name	Your full name appears when managing change lists and in certain administrative tasks.
Language	User interface language and locale to use.
Regional Formats	Regional formats to apply to numbers, dates, and currency values.

Other operations on this page

- **Close the page** – Click **Close** . All changes are saved as you make them, so there is no save command.

Open the Product Designer User Settings page

Procedure

In the User Tools menu , click **User Settings** to open the **User Settings** page.

Change your Product Designer password

Procedure

1. Click **Change Password**.
2. In the **Change Password** dialog box, enter your current password, then enter a new password.
Use the password requirements stated in the dialog box.
3. Re-enter the new password, then click **OK**.

Working with Product Designer change lists

Before you can make any changes in Product Designer, you must create a *change list*. A change list is a named collection of changes that are held in Product Designer until you decide either to commit or revert the changes. Committing your changes means copying them to the application's configuration files on the PolicyCenter server. Because your changes are in a change list, you can safely make changes and then later choose to commit or not commit some or all of those changes.

You can create multiple change lists, and then select the active change list from among them. The active change list is the one you are using now. All changes you make become part of the active change list. Using multiple change lists enables you to group your changes into separate sets and independently commit each change list at the appropriate time.

Note: If you have multiple change lists, the changes in each of your change lists are completely separate from one another. Until you commit them, the changes you make in one change list do not appear in your other change lists. Therefore, if you create a new change list, its state matches the state of the PolicyCenter instance as of the previous commit operation.

Assigning a different user to your change list

Unless you assign it to another user, each change list and the changes it contains belong to you. Other users have their own change lists. A change list remains under your control unless you reassign it to another Product Designer user.

Assigning a change list to another user enables them to review your changes and perhaps make additional changes. They could then assign the change list back to you, enabling you to review their changes. When everyone is satisfied with the changes, you can commit them.

Viewing your Product Designer changes

The name of the active change list appears in the toolbar to the left of the User menu. If you have multiple change lists, click the adjacent down arrow selector ▼ to make a different change list active.

Click **Changes**  to open the **Changes** panel and see your the changes in the active change list.

The appearance of the **Changes** icon changes to indicate status, as follows:

	You have not made any changes.
	You have made changes. Use the Changes page to update or revert your changes.
	You have made changes, but there are errors. Use the Changes panel to locate the errors.

Validating your Product Designer changes

Product Designer validates changes as you move from one page to another. It indicates whether there are validation errors by displaying a red X  on the **Changes** icon in the toolbar.

Additionally, when you are viewing any page that enables you to make changes to the product model or system tables, you can click **Validate** to manually validate your changes. Validation errors appear at the top of the page on a red background. The errors are marked with a red X  and appear on a red background. When no validation errors exist, clicking **Validate** displays the message **No validation errors** marked with a green checkmark  on a green background.

Note: When you click **Validate**, Product Designer reloads the entire product model from the workspace. Therefore, Product Designer can display unexpected values after validation if other users have committed changes to the same workspace.

Finally, when you select **Commit**, Product Designer performs validation of all changes in your active change list and proceeds only if it does not detect any validation errors. Your commit operation is blocked until you resolve all errors in the change list.

Committing your Product Designer changes

When you use Product Designer to make changes to the product model, those changes reside only in your change list. You must commit your changes before they become part of the associated PolicyCenter configuration.

If another user has committed changes to the same field from a different change list, then Product Designer detects the conflict when you attempt to commit your changes. You can then decide how you want to handle the conflict.

Open the Product Designer Changes page

Procedure

1. Click **Changes**  to open the **Changes** panel.
2. Click **Show Full Panel**  to expand the **Changes** page.

The page displays the columns described in “Product Designer Changes page” on page 20.

Product Designer Changes page

The **Changes** page has the following columns.

Column	Description
Location	Location of the changed object. Click this name to jump to the object so that you can examine the change.
Context	Description or type of changed object.

Column	Description
Change	Type of change, for example, edited , added , duplicated , or deleted .
When	Date and time of the change.
Revert	Click Revert  to revert the single change described in this row. Reverting a change removes it from the change list. Note: When you click Revert , Product Designer reloads the entire product model from the workspace. Therefore, Product Designer can display unexpected values after reverting if other users have committed changes to the same workspace.

Commit all Product Designer changes

About this task

Product Designer commits changes in a logical order determined by the software. Changes are not committed in the order in which they appear in the change list. It is not possible to influence the commit order of a single change list. If you need to control the order of changes, make your changes in separate change lists and commit the change lists in the required order. You can also use the same change list but commit more frequently.

Procedure

To commit all of your changes in a change list, click **Commit All**.

If Product Designer detects validation errors, it displays them at the top of the page. All validation errors must be corrected before you can commit your changes. If there are no validation errors, Product Designer attempts to commit your changes.

Correcting errors –If another user has committed changes to the same field or fields from a different change list, Product Designer detects the conflict and displays error messages. Click the location in the error message to view the conflict. Product Designer displays a conflict icon beside each affected field. Click the icon to view the **Resolve Conflicts** dialog box.

- To use your own value for a field, click **Use** beside the **Your Value** field.
- To use the other user's value for a field, click **Use** beside the **Other User's Value** field.

Repeat this process for the other affected fields.

Note: If another user has deleted an object then your only option is to accept the deletion.

After you resolve the conflicts, you can click **Commit All** again to write your changes to the configuration of the application instance associated with the change list.

Revert all Product Designer changes

About this task

You can revert all changes you have made in a change list. When you click **Revert**, Product Designer reloads the entire product model from the workspace. Therefore, Product Designer can display new or updated values after reverting if other users have committed changes to the same workspace.

Procedure

Click **Revert All**.

Result

Product Designer removes all changes from your change list, effectively restoring the product model to its previous state. Any changes you have made are permanently lost.

Validate all Product Designer changes

About this task

When you validate your changes, Product Designer reloads the entire product model from the workspace. Therefore, Product Designer can display new or updated values after validation if other users have committed changes to the same workspace.

Procedure

Click **Validate Only**.

Result

Product Designer performs the same validation that it performs during a **Commit All** operation, but does not commit any of your changes.

My Change Lists page

Examine the details of each of your change lists by using the following fields on the **My Change Lists** page.

Column	Description
Name	Name of the change list. Click the name to open the Change List home page. Note: The name of the active change list appears to the left of the User menu in the toolbar.
Active	Displays a check mark ✓ if the change list is active. Only one change list at a time can be active. You can make a change list active by displaying the Change List home page and clicking Make Active . For more information, see “Change List home page” on page 24.
Changes	Number of pending changes in the change list.
Created	Date and time the change list was created.
Created By	Full name of the person who created the change list. Other users can create a change list and then assign it to you.
Comments	Comments about the change list. To add or edit comments, edit the change list. To edit a change list, click the change list name.

Other operations

- **Sort** – Click any column header to sort by that column. Click again to reverse the sort order.
- **Edit** – Click the name to open a page where you can edit the item.
- **Close the page** – Click **Close** . All changes are saved as you make them, so there is no save command.

Open the My Change Lists page

Procedure

In the User Tools menu , click **My Change Lists** to display the **My Change Lists** page.

Add a Product Designer change list

About this task

You can add any number of change lists. The changes in each change list are independent from one another.

Note: If you have multiple change lists, the changes in each of your change lists are completely separate from one another. Until you commit them, the changes you make in one change list do not appear in your other change lists. Therefore, if you create a new change list, its state matches the state of the PolicyCenter instance as of the previous commit operation.

Procedure

1. Click **Add**.
2. In the **Add a Change List** dialog box, set the following fields.

Change List Name	Name for the new change list. The name can contain any characters, including spaces. To avoid confusion, do not use the same name as any of your other change lists.
Workspace	Workspace with which to associate this change list. A <i>workspace</i> is a named association with a set of PolicyCenter configuration files. Your administrator can define multiple workspaces representing multiple PolicyCenter instances. If more than one workspace is listed, contact your administrator to identify the correct workspace to select.
Make this the active change list	Whether to make this the active change list. The active change list is the one that stores the changes you are currently making. Select this check box if you plan to start using this change list right away.

3. Click **OK** to add the new change list.

Delete a Product Designer change list

About this task

Deleting a change list discards all the changes it contains.

Note: If you delete or reassign the active change list and more than one change list remains, you must select a new active change list. If only one change list remains, Product Designer automatically makes it the active change list. If you have no other change lists, Product Designer prompts you to create a new change list before allowing you to make any changes.

Procedure

1. Select the change list to delete by clicking anywhere in its row except the change list name.
To delete multiple change lists at once, use standard keyboard and mouse key combinations to select multiple rows. The selected rows are highlighted.
2. Click **Delete**.
3. In the **Delete Change Lists** dialog box, review the change lists you are about to delete, and then click **Yes** to delete them.

Assigning Product Designer change lists

You can assign one of your change lists to any other Product Designer user. Examples of when you might want to reassign a change list include:

- You are sharing the project with another user, and now want the other user to review your changes or make additional changes.
- You need a user with different skills or knowledge to complete the work you started.
- You are busy and need to allow other users to do some of the work you started.
- You have been reassigned and need to assign your work to other users.

Assign a change list to another user

Before you begin

Open the **My Change Lists** page as described at “Open the My Change Lists page” on page 22.

About this task

Note: If you delete or reassign the active change list and more than one change list remains, you must select a new active change list. If only one change list remains, Product Designer automatically makes it the active change list. If you have no other change lists, Product Designer prompts you to create a new change list before allowing you to make any changes.

Procedure

- 1. Select the change list to reassign by clicking anywhere in its row except the change list name.
To reassign multiple change lists at once, use standard keyboard and mouse key combinations to select multiple rows. The selected rows are highlighted.
- 2. Click **Reassign**, and then select the user from the **Reassign** menu.
- 3. In the **Reassign Change Lists** dialog box, confirm that the change lists you intend to reassign are listed, and then click **Yes** to reassign them.

Change List home page

Examine and change a selected change list by using the following fields.

Name	Name of the change list. Rename the change list by typing a new name in this text box. The name appears to the left of the User menu in the toolbar when the change list is active.
Workspace	Name of the workspace with which this change list is associated. Established when you add a new change list and thereafter cannot be changed.
Created	Date and time the change list was created. You cannot change this value
Created By	Full name of the person who created the change list. You cannot change this value.
Assigned To	Full name of the person to whom the change list is currently assigned. You can reassign the change list to another user by using clicking Reassign , as explained in the following procedure.
Changes	Number of pending changes in the change list.
Comments	Comments about the change list. Use this text box to add or edit comments.

Other operations

- **Close the page** – Click **Close** . Alternatively, click the breadcrumbs link to return to the **My Change Lists** page. All changes are saved as you make them, so there is no save command.

See also

- “Open the My Change Lists page” on page 22
- “My Change Lists page” on page 22

Make a change list active

Before you begin

Open the **My Change Lists** page as described at “Open the My Change Lists page” on page 22.

Procedure

Click **Make Active**.

This command is unavailable if the change list you are editing is already the active change list.

Delete a change list

About this task

Deleting a change list discards all the changes it contains.

Note: If you delete or reassign the active change list and more than one change list remains, you must select a new active change list. If only one change list remains, Product Designer automatically makes it the active change list. If you have no other change lists, Product Designer prompts you to create a new change list before allowing you to make any changes.

Procedure

1. Click **Delete**.
2. In the **Delete Change Lists** dialog box, confirm the change list you are about to delete, and then click **Yes** to delete it.

Product Designer administration

The following topics explain the how to perform tasks that are available only to Product Designer administrative users.

Administrative tasks include:

- Adding and removing users
- Resetting forgotten passwords
- Granting Administrator rights to other users
- Managing Product Designer localization
- Reassigning change lists from one user to another
- Adding and removing workspaces
- Performing other application-specific tasks

Note: To perform administrative tasks in Product Designer, you must be granted Administrator rights by another user who is already an administrator.

Managing Product Designer workspaces

You manage workspaces on the **Workspaces** page.

A *workspace* is a named reference to the root folder of a PolicyCenter instance. Users select a workspace when creating a change list to identify the PolicyCenter instance to which their changes are to be committed. Product Designer must have at least one workspace defined.

- When running as single-user instance, Product Designer has a preconfigured workspace named **Default workspace** that uses the PolicyCenter instance in which it resides. If needed, you can define additional workspaces that point to other PolicyCenter instances.
- When installed as a multi-user instance, you must define at least one workspace before anyone can use Product Designer. You define this initial workspace by running Product Designer. You are prompted to define a workspace as soon as you log in. As with a single-user instance, you also can define additional workspaces as needed.

Open the Product Designer Workspaces page

About this task

You can manage workspaces in the **Workspaces** page.

Procedure

In the **Options** menu , click **Workspaces** to open the **Workspaces** page.

Product Designer Workspaces page

The **Workspaces** table shows information about each workspace that has been defined:

Column	Description
Name	Workspace name, as specified in the Add a Workspace dialog box.
Folder	Local or network path name to the root configuration folder, as specified in the Add a Workspace dialog box.
Version Control System	Name of version control system, one of: None – No version control system is configured. Perforce – Perforce version control is configured. Note Product Designer interacts directly with Perforce version management software to check out product configuration files, which you then must check in manually. You can use a different version control system by manually checking out files as needed prior to changing them.
Change_Lists	Number of change lists in this workspace.
Changes	Total number of changes in all of the change lists in this workspace.
Created	Date and time the workspace was created.
Created By	Full name of the user who created the workspace.

Other operations

- **Sort** – Click any column header to sort by that column. Click again to reverse the sort order.
- **Edit** – Click the name to open a page where you can edit the item.
- **Close the page** – Click **Close** . All changes are saved as you make them, so there is no save command.

Add a Product Designer workspace

Procedure

1. On the **Workspaces** page, click **Add**.
2. In the **Add a Workspace** dialog box, fill in the following fields:

Field	Description
Name	Name of the workspace. Can contain any characters.
Configuration Root Folder	Local or network path name to the root folder of the workspace. For example, a PolicyCenter instance is deployed as follows: • Server – Server1 • Path name – Guidewire/PolicyCenter In this case, the configuration root folder is <code>//Server1/Guidewire/PolicyCenter</code>. For a single-user local instance of Product Designer, you can click the search icon to locate the configuration root folder. Note: Product Designer checks the specified path for the presence of valid configuration files.

3. Click **OK** to add the new workspace.

Delete a Product Designer workspace

About this task

IMPORTANT Exercise caution before deleting a workspace. Deleting a workspace causes all users who have change lists in the workspace to lose all their work. Additionally, if you delete all workspaces, users cannot make any changes to the product model until you define a new workspace. When no workspaces exist, Product Designer prompts you to define a workspace when you log in.

A user who has change lists only in the workspace that you delete, and in no other workspace, will no longer have any change lists after you delete the workspace. The user must add a new change list to be able to make changes in Product Designer.

Procedure

1. Select a workspace to delete by clicking anywhere in its row except the name or folder.
To delete multiple workspaces at once, use standard keyboard and mouse key combinations to select multiple rows. The selected rows are highlighted.
2. Click **Delete**.
3. In the **Delete Workspaces** dialog box, you can view the number of change lists and changes that are present in the workspaces you have elected to delete. If needed, click **No** to cancel this operation and handle any issues with uncommitted changes.
4. Click **Yes** to delete the workspaces.

Editing workspace on Product Designer Workspace home page

You can select a workspace and then examine and edit the details of the selected workspace on the workspace home page. The workspace home page has multiple sections.

Basic settings section

Field	Description
Name	Workspace name, as specified in the Add a Workspace dialog box. You can change the name at any time without affecting associated change lists.
Configuration Root Folder	Local or network path name to the root configuration folder, as specified in the Add a Workspace dialog box. Established when you add a new workspace and thereafter cannot be changed.
Created	Date and time the workspace was created. You cannot change this value.
Created By	Full name of the user who created the workspace. You cannot change this value.

Change lists section

Field	Description
Change Lists	Number of change lists associated with this workspace. Click the adjacent Expand ► icon to expand the Change Lists section.
Name column	Name of the change list associated with this workspace.
Assigned To column	Name of the user to whom the change list is currently assigned.
Changes column	Number of uncommitted changes in the change list.

Changes	Total number of uncommitted changes in all change lists associated with this workspace.
----------------	---

Version control section

Field	Description
Version Control System	Version control system, one of: None – No version control system is used. Perforce – Perforce version control is used. Selecting this option expands the Perforce Configuration section. Product Designer interacts directly with Perforce version management software to check out product configuration files, which you then must check in manually. You can use a different version control system by manually checking out files as needed prior to changing them.

Perforce configuration section

Field	Description
Server Name:Port	Name and port of Perforce server. For example: perforce:1666.
Client	Name of Perforce client specification that maps a to a Perforce workspace that includes a root configuration folder.
User Name	Perforce user name.
Password	Perforce password

Test server section

Field	Description
Test Server URL	URL of the PolicyCenter development instance to which to synchronize files when users select Synchronize Product Model or Synchronize System Tables from the Options menu.
User Name	User name of a user who has admin role in PolicyCenter.
Password	Password for the specified user name. IMPORTANT Providing the user name and password of a PolicyCenter user in this page suppresses the Synchronize Product Model and Synchronize System Tables dialog boxes. Users then do not see the informational message that explains the potential impact of synchronize operations.

Managing users on Product Designer Users page

The **Users** table shows information about each Product Designer user:

Column	Description
Name	Full name of the user. The full name appears when managing change lists and in certain administrative tasks.
User Name	Name the user types when logging in to Product Designer. Users can change their own user names at any time.
Administrator	Select the check box to grant administrative rights to the user.

Other operations

- **Sort** – Click any column header to sort by that column. Click again to reverse the sort order.
- **Edit** – Click the name to open a page where you can edit the item.
- **Close the page** – Click **Close** . All changes are saved as you make them, so there is no save command.

Open the Product Designer Users page

Procedure

In the **Options** menu , click **Users** to display the **Users** page.

Add a Product Designer user

Procedure

1. On the **Users** page, click **Add**.
2. In the **Add User** dialog box, fill in the following fields:

Field	Description
User Name	Name the user enters to log into Product Designer. Can contain any characters except spaces, and must be unique.
Full Name	Full name of the user. Appears when managing change lists and in certain administrative tasks.
Default Password	Initially contains an automatically-generated password that you can overwrite if needed. Pay attention to the stated password requirements. Make a record of the password so that you can later provide it to the user.
Administrator	Whether this user has administrative rights. Select this check box to add an administrative user. Administrative users can manage users, workspaces, and change lists for all users. Clear this check box when adding an ordinary user. Ordinary users can manage their own user settings and change lists only. Note: This setting affects Product Designer administration only. It has no effect on PolicyCenter administration.

3. Click **OK** to add the new user.

Delete a Product Designer user

Procedure

1. Select a user to delete by clicking anywhere in its row except the name or user name.
2. Click **Delete**.
3. In the **Delete a User** dialog box, choose an option for handling the user's change lists. The number of change lists assigned to the user appears in parentheses. You can choose:
 - **Delete** – Delete the user's change lists.
 - **Assign to Me** – Assign the user's change lists to yourself. If you are concerned about uncommitted changes any of this user's change lists, choose this option so that you can review the changes.
4. Click **Yes** to delete the user.

Editing user details on Product Designer User Home page

The title of this page includes the user's full name followed by the user's user name in brackets. For example:

Alice Applegate [aapplegate]

User Name	Name the user enters to log into Product Designer. Can contain any characters except spaces, and must be unique. Note: User names are case-sensitive.
Full Name	Full name of the user. Appears when managing change lists and in certain administrative tasks.

Language	User interface language for Product Designer. Select a language from the drop-down list.
Regional Formats	Regional formatting for numbers, dates, and monetary values. Select a format from the drop-down list.
Administrator	Whether this user has administrative rights. Select this check box to designate the user as an administrator. Administrative users can manage users, workspaces, and change lists for all users. Clear this check box when designate the user as an ordinary user. Ordinary users can manage their own user settings and change lists only. Note: This setting affects Product Designer administration only. It has no effect on PolicyCenter administration.

Reset Product Designer user's password

Procedure

1. From the **User** home page, click **Reset Password**.
2. In the **Reset Password** dialog box, make a note of the automatically-generated password. Alternatively, replace it with a password of your choice. Pay attention to the stated password requirements.
3. Click **OK**.
4. Provide the new password to the user.

Delete a Product Designer user

Procedure

1. From the **User** home page, click **Delete**.
2. In the **Delete a User** dialog box, choose an option for handling the user's change lists. The number of change lists assigned to the user appears in parentheses. You can choose:
 - **Delete** – Delete the user's change lists.
 - **Assign to Me** – Assign the user's change lists to yourself. If you are concerned about uncommitted changes any of this user's change lists, choose this option so that you can review the changes.
3. Click **Yes** to delete the user.

Managing Product Designer change lists

As you work in Product Designer and make changes to the PolicyCenter configuration, Product Designer stores a record of those changes in a *change list*.

When you are ready to save your changes to the PolicyCenter configuration, you use Product Designer to commit the change list. Then, all changes in the change list are written to the PolicyCenter instance associated with the workspace to which the change list belongs.

If needed, you can discard any or all changes in the change list by reverting individual changes or reverting all changes.

All users can:

- Create their own change lists.
- Commit or revert the changes in their active change list.
- Change their active change list.
- Assign their change lists to other users.
- Delete their own change lists.

Administrative users can do any of these tasks, plus:

- Reassign any user's change list to another user.
- Delete any user's change list.

Open the Product Designer Change Lists page

Procedure

In the **Options** menu , click **Change Lists** to display the **Change Lists** page.

Product Designer Change Lists page

The **Change Lists** table shows information about each change list:

Column	Description
Name	Change list name, as specified in the Add Change List dialog box.
Active	Whether the change list is the active change list of the user indicated in the Assigned To column.
Changes	Number of uncommitted changes in the change list.
Assigned To	Full name of the user to whom the change list is currently assigned.
Created	Date and time on which the change list was created.
Created By	Full name of the user who created the change list.
Comments	Comments that have been added in the Change List home page.

Other operations

- **Sort** – Click any column header to sort by that column. Click again to reverse the sort order.
- **Edit** – Click the name to open a page where you can edit the item.
- **Close the page** – Click **Close** . All changes are saved as you make them, so there is no save command.

Add a Product Designer change list

Procedure

1. On the **Change Lists** page, click **Add**.
2. In the **Add a Change List** dialog box, fill in the following fields:

Field	Description
Change List Name	Name of the change list. Can contain any characters.
Workspace	Workspace with which this change list is associated. Select a workspace from the list. Typically, each workspace designates a different PolicyCenter instance. Many Product Designer instances need only a single workspace because they are associated with a single PolicyCenter instance. But if your configuration includes multiple PolicyCenter instances, be sure to select the intended workspace.
Make this the active change list	Whether the new change list becomes your active change list. Note: When you add a new change list, it is initially assigned to you. If you want to assign it to another user, use the Reassign command.

3. Click **OK** to add the new change list.

Delete a Product Designer change list

Procedure

1. Select a change list to delete by clicking anywhere in its row except the name. To delete multiple change lists at once, use standard keyboard and mouse key combinations to select multiple rows. The selected rows are highlighted.
2. Click **Delete**.
3. In the **Delete Change Lists** dialog box, warnings alert you to any issues related to deleting active change lists or leaving users with no active change list assigned. If needed, click **No** to cancel this operation and handle these issues.
4. Click **Yes** to delete the change lists.

Reassign a Product Designer change list

Procedure

1. Select a change list for which you want to reassign the user by clicking anywhere in its row except the name. To reassign multiple change lists at once, use standard keyboard and mouse key combinations to select multiple rows. The selected rows are highlighted.
2. Click **Reassign** and select a user from the drop-down menu.
3. In the **Reassign Change Lists** dialog box, warnings alert you to any issues related to reassigning active change lists or leaving users with no active change list assigned. If needed, click **No** to cancel this operation and handle these issues.
4. Click **Yes** to reassign the change lists.

Product Designer localization

Product Designer can be localized in several ways:

- Display language
- Online help
- Product model strings

Display language and online help

In the base configuration of Product Designer, the display language for the user interface and online help is set to U.S. English. Language-specific content for the user interface and online help is provided for all languages in the base configuration. You can change to other languages included in the base configuration. You can enable multiple languages, so that the user can choose to work in Product Designer in the language of their choice. Through configuration, you can add other languages if you provide translated content for the user interface and online help.

Product model strings

Product Designer displays product model strings in the display language of PolicyCenter. To see the product model strings in a different language in Product Designer, you must enable that display language in PolicyCenter. See *Globalization Guide*.

Change Product Designer display language and help

These instructions describe how to add or change the display language for the user interface and online help from U.S. English to another language provided in the base configuration or to a language for which you provide the content.

Before you begin

Your computer must have the following setup:

- Supported Java Development Kit (JDK) with jar.exe installed
- JAVA_HOME/bin in your PATH

About this task

In these steps, you will be working in the `PolicyCenter/productdesigner/java_version/language-config` directory.

Content for the Product Designer user interface and online help is provided for all languages in the base configuration. These instructions tell you how to make these languages available in the user interface and online help.

You can use these instructions to make available a language that is not in the base configuration. However, you must create the content.

Procedure

Unpack

1. To unpack the user interface and online help files from `productdesigner.war`, navigate to the `productdesigner/java_version/language-config` directory and run `unpack.bat`.

This command extracts files to the `language-config/config/locale` directory. Running this command creates the following files and directories in `locale`:

- `language.properties` file lists the languages to display in Product Designer.
- `display.properties` and `display_LanguageCode.properties` files contain the user interface strings for U.S. English and other languages.
- `doc` directory contains localized content for online help. There are `en_US` and `LanguageCode` subdirectories for each language included in the base configuration. The online help for each language is in a `productdesigner` subdirectory.

Optional: Create localized content for a language not in the base configuration

2. In `language-config/config/locale`, create a `display_LanguageCode.properties` file with localized versions of the user interface strings.
3. In `language-config/config/locale/doc`, create a `doc/LanguageCode` directory and add localized online help content.

Configure display languages

4. Open `language-config/config/locale/language.properties` in a text editor.
5. For each language that you would like to appear in the user interface, add a entry using the following format:
`LanguageCode = Description`.
6. To change the default language, change the `default.language` property value to one of the `LanguageCode` values.
7. Save and close `language.properties`.

Repack

8. To repack the localized content into a new `productdesigner.war` file, navigate to the `productdesigner/java_version/language-config` directory and run `repack.bat`.

This command creates a new `productdesigner.war` in the `language-config/output` directory. The WAR file contains your new language configuration.

Deploy to a single-user Product Designer instance

9. Make a backup copy of `productdesigner/java_version/war/productdesigner.war` in a location outside the PolicyCenter installation.
10. Copy `productdesigner.war` from the `language-config/output` directory to the original location (`productdesigner/java_version/war`) on each computer that runs Product Designer, overwriting the old `productdesigner.war` file in that location.

11. Start Product Designer by following the instructions in the Product Designer Guide.

Deploy to a multi-user Product Designer instance

12. Make a backup copy of `productdesigner/java_version/war/productdesigner.war` in a location outside the PolicyCenter installation.
13. Copy `productdesigner.war` from `language-config/output` to your application server.
14. Deploy the WAR file by following the deployment instructions for your application server.
15. Start the application server and log in to Product Designer from a web browser using the appropriate URL.

Result

- The Product Designer application server will not start if `default.language` is not defined or is not set to a valid language.
- Product Designer does not validate the `display.properties` contents for a given language. Therefore, you must localize all display keys to preserve the integrity of the user interface.