

Oracle® Business Process Management

Oracle BPM Workspace Customization Guide

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Introduction

This section provides general information about the *AquaLogic BPM WorkSpace Customization Guide*. This guide assumes that you have already installed Oracle BPM Enterprise. See the *AquaLogic BPM Installation Guide* for more information.

Document Scope and Audience

This document is written for developers and administrations who need to customize Oracle BPM WorkSpace. It describes the tasks needed to customize Oracle BPM WorkSpace look and feel, layout, content and behaviour.

This guide also provides general information about Oracle BPM WorkSpace configuration settings.

This document assumes that you have a good understanding of Java, HTML, Cascading Style Sheets (CSS) and user interface terminology. It also assumes that you are familiar with Oracle BPM WorkSpace and Oracle BPM Process API.

Oracle Documentation and Resources

This section describes other documentation, resources, support, and training information provided by Oracle.

The table below lists a number of Oracle Documentation and Resources which will help you get started with Oracle BPM.

| Resource | Description |
|---------------------------------|---|
| Oracle BPM Documentation | The complete Oracle BPM 10.3 product documentation is available at http://download.oracle.com/docs/cd/E13154_01/bpm/docs65/index.html . |
| Oracle BPM Product Page | The official BPM product page is available at http://www.oracle.com/technology/products/bpm/index.html and provides news, data sheets and useful links. |
| Oracle BPM Download Page | You can download the latest version of Oracle BPM from http://www.oracle.com/technology/software/products/ias/bea_main.html . |
| Online Help | To access online help: <ul style="list-style-type: none"> • In BPM Studio, select Help ► Help Contents to access the complete Oracle BPM Studio help. Context help is also available by pressing the F1 key, or by selecting Help ► Dynamic Help from the menu. • In BPM WorkSpace, click on Help in the title bar, or click on the help icon (🔍) in the title bar of any panel for help about that panel. |
| Oracle Technology Network (OTN) | The Oracle Technology Network features articles, blogs, and newsgroups which will help you make the most out of Oracle products. http://www.oracle.com/technology/index.html |
| User Groups | Visit the User Groups to collaborate with peers and view upcoming meetings. At Oracle forums: http://forums.oracle.com/forums/forum.jspa?forumID=560 |

| Resource | Description |
|-------------------|--|
| Technical Support | <p>If you cannot resolve an issue using the above resources, Oracle Technical Support is happy to assist.</p> <p>http://www.oracle.com/support/index.html</p> |

Oracle BPM Workspace Customization

You can customize Oracle BPM Workspace to adapt it to the requirements of the end users. The following section analyzes the different reasons for customizing Oracle BPM Workspace and the available customization types.

When Is Oracle BPM Workspace Customization Useful?

Oracle BPM Workspace application can be customized according to the users needs.

Possible reasons to customize Oracle BPM Workspace include:

- To provide branding. This helps users identify Oracle BPM Workspace as an application of your organization.
- To make the application more intuitive by resembling the way other applications that are familiar to the user, look and behave.
- To ensure messages, colors and images convey the right meaning to the user.

Types of Customization

Oracle BPM Workspace supports different types of customizations. Depending on your needs you may need to apply all of them or just a subset that fulfills your requirements.

The following list shows the available types of customizations:

Look and Feel Customization

You can change the color scheme, fonts, icons and messages Oracle BPM Workspace uses. This is the most basic type of customization. Typically it will satisfy your requirements.

To customize color schemes and fonts you have to define your own Cascading Style Sheets (CSS). To change icons, labels and text messages you have to create a properties file and configure Oracle BPM Workspace to use it.

For more information on how to customize Oracle BPM Workspace look and feel, see [Oracle BPM Workspace Look and Feel Customization](#) on page 9

Layout Customization

You can change the position of already existing panels, add new panels, and remove already existing panels. You can define a default layout for all the users of the application. In turn, each user can modify the default layout.

For more information on how to customize Oracle BPM Workspace layout, see [Oracle BPM Workspace Layout Customization](#) on page 20.

Content Customization

You can change the information displayed in the Work Items and Applications panels. You can also change the appearance of the rows and cells that compose the Work Items panel, based on the work item information.

For more information on how to customize Oracle BPM Workspace content, see [Customizing the Work Items and Applications Panel Content](#) on page 29.

Panel Interaction Customization

You can modify the way panels interact with one another. If you add or remove panels to the default layout, you might need to modify how the selected items in those panels trigger changes in the content displayed by other panels.

For more information on how to customize Oracle BPM WorkSpace interaction between panels, see [Panel Interaction Customization](#) on page 34.

Oracle BPM WorkSpace Look and Feel Customization

The look and feel of an application defines its appearance and the behaviour of its components. WorkSpace allows you to customize its look and feel to resemble other websites and applications in your organization.

You can customize the following design elements:

- colors
- fonts
- borders
- dimensions and layout
- header images
- icons

Except for icons, these design elements are defined using Cascading Style Sheets (CSS). Icons are defined using image bundles.

Defining Visual Properties using CSS

Each WorkSpace component has its own visual properties. These properties are defined by using CSS.

Each of the following visual components is associated with one or more CSS classes:

- Login screen
- Header
- Background
- Panels
- Footer
- Error messages

To change the style of a component, modify the class associated with that component.

You can change the following properties for each visual component :

- Background and foreground color
- Background images
- Width and height
- Border type, thickness, and color
- Font family, style, weight, size, and color
- Text alignment

Changing Oracle BPM WorkSpace Default CSS File

WorkSpace uses a CSS to define its presentation. The following procedures show you how to change WorkSpace default CSS file.

These procedures show you how to create a new CSS file using WorkSpace default CSS file as a template. To do this you need to edit the following files:

- The CSS file `bpmworkspace.css` in `<ORABPM_HOME>/webapps/workspace/css`.
- WorkSpace configuration file `workspace.properties` in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

To change WorkSpace default CSS:

1. Create a copy of the file `bpmworkspace.css`.



Note: Make sure you leave the copied CSS file in the same directory where the original file is.

2. Rename the copied file.
3. Edit the new CSS file to modify presentation preferences.

For a reference of the CSS classes each WorkSpace panel uses, see [Oracle BPM WorkSpace Panels CSS Reference](#) on page 44.

4. Edit the file `workspace.properties`.
5. Change the value of the property `fuego.workspace.stylesheet` to the name of the new CSS file.
6. Restart Oracle BPM web applications.

The next time you access WorkSpace, it uses the properties defined in the new CSS file to render its presentation.

Customizing Oracle BPM WorkSpace Login Screen

You can customize WorkSpace login screen with the logo and colors of your organization.

To customize WorkSpace Header you can:

- Change the login screen banner
- Change the login screen font

Changing the Login Screen Banner

The following procedures show you how to change the image displayed in the login screen banner.

The following procedure needs you to edit WorkSpace CSS file. For information on how to change WorkSpace default CSS, see [Changing Oracle BPM WorkSpace Default CSS File](#) on page 9.

For a complete reference of the CSS classes used to render the login screen, see [Oracle BPM WorkSpace Login Screen CSS Classes](#) on page 43.

To change the image in the login screen banner:

1. Create an image with the desired banner.
The image should be 48px tall and not be wider than 330px.
2. Copy the image to the directory `<ORABPM_HOME>/webapps/workspace/img`.
3. Edit WorkSpace CSS file.
4. Change the value of the property `background-image` for the class `LoginRoundedToolbar` for the path of the new image.
5. Save the changes made to the CSS file.
6. Re-start WorkSpace.

The next time you start WorkSpace the login screen displays the new image.



Note: If the custom settings you defined are not applied, empty your browser's cache and re-login to WorkSpace.

Changing the Login Screen Font

The following procedure shows you how to change the font of the login screen.

The following procedure needs you to edit Workspace CSS file. For information on how to change Oracle BPM Workspace default CSS, see [Changing Oracle BPM Workspace Default CSS File](#) on page 9.

For a complete reference of the CSS classes used to render the login screen, see [Oracle BPM Workspace Login Screen CSS Classes](#) on page 43.

To change the font of the login screen:

1. Edit Workspace CSS file.
2. Change the value font property for the class bpmWorkspaceLoginFormLabel.

The next time you start Workspace the login screen displays the font you defined.



Note: If the custom settings you defined are not applied, empty your browser's cache and re-login to Workspace.

Customizing Oracle BPM Workspace Header

You can customize Workspace header with the logo and colors of your organization.

To customize Workspace header you can:

- Change the logo image
- Change the decoration image
- Change the menu background color
- Change the font

Changing the Logo Image

The following procedure shows you how to change the logo image that appears on the header of Workspace.


The following procedure needs you to edit Workspace CSS file. For information on how to change Oracle BPM Workspace default CSS, see [Changing Oracle BPM Workspace Default CSS File](#) on page 9.

For a complete reference of the CSS classes used to render the header, see [Oracle BPM Workspace Header CSS Classes](#) on page 44.

To change the logo image:

1. Create an image with the logo of your organization.
The image should be 50px tall and no more than 460px wide.
2. Copy the image to the directory <ORABPM_HOME>/webapps/workspace/img.
3. Edit the Workspace CSS file.
4. Change the value of the property background-image for the class bpmWorkspaceHeaderLogoImage for the path of the new image.
The position of the logo can be changed by changing the property background-position.
5. Save the changes to the CSS file.
6. Re-start Workspace.

The next time you start Workspace the header displays the new logo image.

 **Note:** If the custom settings you defined are not applied, empty your browser's cache and re-login to Oracle BPM Workspace.

Changing the Header Menu Background Color

The following procedure shows you how to change the color of the menu that appears in Workspace header.


The following procedure needs you to edit Workspace CSS file. For information on how to change Oracle BPM Workspace default CSS, see [Changing Oracle BPM Workspace Default CSS File](#) on page 9.

For a complete reference of the CSS classes used to render the header, see [Oracle BPM Workspace Header CSS Classes](#) on page 44.

To change the color of the menu:

1. Edit the Workspace CSS file.
2. Change the value of the property background-color for the following classes: bpmWorkspaceHeaderToolbar, bpmWorkspaceHeaderUser, bpmWorkspaceHeader.
3. Save the changes made to the CSS file.
4. Re-start Workspace.

The next time you start Workspace the header menu uses the color you defined.

 **Note:** If the custom settings you defined are not applied, empty your browser's cache and re-login to Workspace.

Changing the Header Font

The following procedure shows you how to change the header font.


The following procedure needs you to edit Workspace CSS file. For information on how to change Workspace default CSS, see [Changing Oracle BPM Workspace Default CSS File](#) on page 9.

For a complete reference of the CSS classes used to render the header, see [Oracle BPM Workspace Header CSS Classes](#) on page 44.

To change the header font:

1. Edit the Workspace CSS file.
2. Change the value font property for the classes bpmWorkspaceHeaderToolbar TD and bpmWorkspaceHeaderToolbar a.
3. Save the changes made to the CSS file.
4. Re-start Workspace.

The next time you start Workspace the header uses the font you defined.

 **Note:** If the custom settings you defined are not applied, empty your browser's cache and re-login to Workspace.

Customizing Oracle BPM Workspace Footer

By default Workspace footer is disabled. The following procedure shows you how to add a footer.

The following procedures need you to edit the Workspace CSS file. For information on how to change Oracle BPM Workspace default CSS, see [Changing Oracle BPM Workspace Default CSS File](#) on page 9.

To add a footer:

1. Edit the Workspace CSS file.
2. Add the attribute height to the class bpmWorkspaceFooter.
If the footer includes a background image the height match or be greater than the height of the image.
3. Customize the footer by modifying the attribute values of the class bpmWorkspaceFooter.

The next time you start Workspace the footer displays the custom settings you defined.



Note: If the custom settings you defined are not applied, empty your browser's cache and re-login to Workspace.

Oracle BPM Workspace Icons

Workspace comes with a default set of icons. You can customize these icons.

Workspace uses icons to do the following:

- Identify actions that the user can execute
- Indicate the type or the state of the information the icon is associated with

The application provides a default set of icons that uses standard symbols and colors. You can replace this set of icons partially or completely by following the procedures described in [Customizing Workspace Icons](#) on page 13.

Customizing Workspace Icons

Workspace uses icons to help the user quickly identify important information and actions to perform. If standard icons do not convey the right meaning to your audience, you may need to replace them. The following procedures show you how to replace the default set of icons in Workspace.

These procedures show you how to create a new image bundle using Workspace's default image bundle as a template. To do this you need to edit:

- The Workspace configuration file `workspace.properties` in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.
- The icons configuration file `ImagesBundleSet1.properties` in `<ORABPM_HOME>/webapps/workspace/WEB-INF/classes`.

1. Create a copy of the file `ImagesBundleSet1.properties`.



Note: Make sure you leave the copied file in the same directory where the original file is.

2. Rename the copied file.
3. Replace the standard icon for the new icon.
 - a) Copy the new icon to the directory `<ORABPM_HOME>/webapps/workspace/img/`.
 - b) Locate the key that corresponds to the icon you need to change.
For a list of Workspace icons, see [Oracle BPM Workspace Icons Reference](#) on page 49.
 - c) Replace the value of this property for path of the new icon.

The value of the property is the text to the left of the equals sign (=).



Note: Avoid deleting properties while editing this file. Doing so can cause Workspace to fail loading upon restart.

4. Repeat the previous step for all the icons you need you customize.
5. Edit `workspace.properties` file.

6. Change the value of the property `fuego.workspace.imageBundleFile` to the name of the properties file.
7. Restart Oracle BPM web applications.

The next time you access Workspace the new set of icons is used.

Reasons for Customizing Oracle BPM Workspace Icons

Customizing Workspace icons can improve its usability and adapt it to the needs of the end users.

Some of the most common reasons for replacing one or more of the default icons are:

- The meaning of symbols and colors can change between different cultures or different organizations. To communicate with end users more effectively, you may need to change the icons.
- Workspace users expect a particular user to designate a specific action. Making Workspace consistent in its use of icons makes it more intuitive and reduces the time needed to learn how to use it.
- You have customized the Workspace color scheme and you want the colors of your icons to match it.

Oracle BPM Workspace Icon Customization Mechanism

Workspace application retrieves the icon images based on the information contained in a properties file.

The location of this properties file is defined by the value of the property `fuego.workspace.imageBundleFile` in the Workspace configuration file.

The location for the images that correspond to the default icon set is defined in the properties file `ImagesBundleSet1.properties` located under

`<ORABPM_HOME>/webapps/workspace/WEB-INF/classes`. This file contains a set of key/value pairs, where the key is a String that identifies a certain icon and the value is the filepath to the image for that icon. The application uses the key to find the path to the image file used for each of its icons.

The images files that make up the default set of icons are stored in the directory

`<ORABPM_HOME>/webapps/workspace/img`. When replacing default icons you can choose to store the new icons in the same directory where default icons are stored, or you can create a new directory for that purpose. You should place the directory for storing icon images under `<ORABPM_HOME>/webapps/workspace/img`. The filepaths defined in the icon configuration properties file are relative to this directory.

Oracle BPM Workspace Labels and Text Messages

Workspace comes with a predefined set of labels and text messages. You can customize their wording.

The text used in Workspace application can be divided into the following categories:

- Labels
- Text messages

Labels identify a graphical component, such as a text box or a button. Usually the text in labels is short and contains very few words.

Text messages provide feedback to the user about the actions they execute. The most common type of text messages are error messages and warnings.

Customizing Oracle BPM Workspace Labels and Text Messages

Workspace provides a mechanism to customize labels and text messages. The following procedures show you how to redefine one or more labels and or text messages.

These procedures require the edition of Workspace configuration file `workspace.properties` in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

1. Create a properties file.
2. Open the properties file in a text editor.
3. Add a key value pair for each of the messages you need to customize.
 - The key should be one of the keys listed in [Oracle Workspace Labels and Text Messages Reference](#) on page 57.
 - The value is the String you want Workspace to display for the label or text message corresponding to the specified key.



Note: If the message needs to include input from the application it includes the string %number. The number corresponds to the number of inputs received by the message. When customizing messages that contain this string make sure you include it in the customized message.

For example, if you want to replace the String "Help" for "Help me" you need to add the following key value pair to the properties file: Help=Help me

4. Copy this file to <ORABPM_HOME>/webapps/workspace/WEB-INF/classes.
5. Edit the Workspace configuration file.
6. Add the key fuego.workspace.customMessageBundle and set its value to the name of the properties file, without the extension.

For example, to add the properties file `ModifiedMessages.properties`, you need to add the key value pair `fuego.workspace.customMessageBundle=ModifiedMessages` to Workspace configuration file.

7. Restart Oracle BPM web applications.

The next time you access Workspace, it uses the messages you defined in the properties file.

Reasons for customizing Oracle BPM Workspace Labels and Text Messages

Customizing Workspace labels and text messages can be used to improve its usability and adapt it to the needs of the end user.

Some of the most common reasons for customizing either labels, or text messages, or both, are:

- The word used for a certain action has a different meaning in the context of your organization.
- Other applications in your organization use a certain word for labeling an action and you want Workspace to follow that same standard, so that users find it more intuitive.
- You want to change the tone of the messages, either by making it more familiar, or more formal.
- You want to add additional relevant information to error messages, such as the system administration contact information.

Oracle BPM Workspace Customization for Labels and Text Messages

Workspace uses a default set of labels and text messages, which you can customize.

By default, customization for labels and text messages is not enabled. If the property `fuego.workspace.customMessageBundle` is not present in the Workspace configuration file, Workspace uses a default set of labels and text messages.

The customized text for labels and text messages is defined in a properties file located under <ORABPM_HOME>/webapps/workspace/WEB-INF/classes.

Workspace loads the contents of this file based on the property `fuego.workspace.customMessageBundle` in the Workspace configuration file. The value of this property is the name of the properties file where you define the new values for all the messages you want to customize.

For all the messages whose key is included in the properties file, Workspace displays the customized value. For the rest of the messages it uses the default value.

If the file specified in the Workspace configuration file does not exist, Workspace uses the default text for all labels and text messages.

Look and Feel Localization

The look and feel customization may differ according to the language and culture of the Workspace end users. You can localize the customization of the different elements that make up the look and feel.

Custom messages need to be translated if Workspace users speak different languages. You might also need to use different colors, font-sizes and images that adapt to the culture of its users. The font-size usually needs to be changed according to the typography selected in the CSS file. It is advisable to define font one or two points larger for Asian characters.

CSS Localization

By default, an Workspace installation includes an English CSS files and separate CSS files for Japanese, Chinese and Korean. If Workspace is used in any of these languages you should redefine the corresponding CSS. If Workspace is used in a language different from English and you need to make adjustments to the style of that locale, you should add the CSS file that corresponds to that locale.

If there is no CSS defined for the locale Workspace is running in, it uses the CSS defined for English. The CSS defined for English use the suffix -en or use no suffix. For example, although a French CSS file is named `customStyle-fr.css`, using an -fr suffix, the corresponding English CSS file would be named simply `customStyle.css`, without an -en suffix.

To localize CSS preferences, follow the procedure described in [Localizing Oracle BPM Workspace CSS](#) on page 17.

Labels and Text Messages Localization

By default Workspace supports the following languages:

- Chinese
- Deutsch
- Dutch
- English
- French
- Italian
- Japanese
- Korean
- Portuguese
- Spanish

To customize the labels and text messages for any of these languages, you define a message bundle for that locale. You can only customize the default supported languages, or a language you add. You must not use this mechanism to add a new language. To localize custom labels and text messages, follow the procedure described in [Localizing Workspace Labels and Text Messages](#) on page 17.

Images Localization

By default, Workspace uses a single image set. You can, however, define an image set for a specific locale. If there is no image set defined for the locale Workspace is running in, it uses the image set defined for English.

To localize Workspace icons, follow the procedure described in [Localizing Oracle BPM Workspace Icons](#) on page 18.

Adding a New Language

If you want to add a new Language that Workspace does not support by default, follow the procedures described in .

Localizing Oracle BPM Workspace CSS

You can define specific presentation preferences for a certain locale. The following procedure shows you how to define a style sheet for a specific locale.

To localize the preferences defined through CSS:

1. Create a copy of the CSS file defined by the property `fuego.workspace.stylesheet` in Workspace configuration file, `workspace.properties` located in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

 **Note:** Make sure you leave the copied CSS file in the same directory where the original file is.

2. Rename the copied file adding to its name the suffix `-localeCode` that corresponds to the desired locale according to ISO-639.

For a complete list of the available codes, see <http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt>.

For example, to localize French CSS file you should add the suffix `-fr` to the CSS file name. If the English customization file is named `customStyle.css` the French CSS file is named `customStyle-fr.css`.

3. Edit the new CSS file to modify presentation preferences.
4. Restart Oracle BPM web applications.

The next time you access Workspace in the defined locale, it uses the properties defined in the new CSS file to render its presentation.


Localizing Workspace Labels and Text Messages

You can define custom labels and text messages for a certain locale. The following procedure shows you how to define custom labels and text messages for a specific locale.

To localize custom labels and text messages:

1. Create a copy of the properties file defined by the property `fuego.workspace.customMessageBundle` in Workspace configuration file, `workspace.properties` located in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

 **Note:** Make sure you leave the copied properties file in the same directory where the original file is.

 **Note:** If you do not need to customize English messages, then create a empty properties file following the procedure described in [Localizing Workspace Labels and Text Messages](#) on page 17.

2. Rename the copied file adding to its name the suffix `_localeCode` that corresponds to the desired locale according to ISO-639.

For a complete list of the available codes, see <http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt>.

For example, to localize French custom messages you should add the suffix `_fr` to the properties file name. If the English customization file is named `customMessages.properties` the French customization file is named `customMessages_fr.properties`.

3. Edit the new properties file to translate the custom messages to the corresponding locale.
4. Restart Oracle BPM web applications.

The next time you access Workspace in the defined locale, it uses the defined custom labels and text messages.

Localizing Oracle BPM Workspace Icons

You can replace some of the Workspace icons for a certain locale. The following procedure shows you how to customize Workspace icons for a specific locale.

To localize Workspace icons:

1. Create a copy of the properties file defined by the property `fuego.workspace.imageBundleFile` in Workspace configuration file, `workspace.properties` located in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.



Note: Make sure you leave the copied properties file in the same directory where the original file is.

2. Rename the copied file adding to its name the suffix `_localeCode` that corresponds to the desired locale according to ISO-639.

For example, to localize icons for French language you should add the suffix `_fr` to the properties file name. If the English icons customization file is named `customIcons.properties` the French customization file is named `customIcons_fr.properties`.

For a complete list of the available codes, see <http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt>.

3. Replace the standard icon for the new icon.

a) Copy the new icon to the directory `<ORABPM_HOME>/webapps/workspace/img/`.

b) Locate the key that corresponds to the icon you need to change.

For a list of Workspace icons, see [Oracle BPM Workspace Icons Reference](#) on page 49.

c) Replace the value of this property for path of the new icon.

The value of the property is the text to the left of the equals sign.



Note: Avoid deleting properties while editing this file, doing so can cause the Workspace to fail loading upon restart.

4. Repeat the previous step for all the icons you need you customize for the corresponding locale.
5. Restart Oracle BPM web applications.

The next time you access Workspace in the defined locale, it uses the defined custom icons.

Adding a New Language to Workspace

The following procedure shows you how to add new languages to Oracle BPM Workspace.

To add a new language:

1. Locate the file `fuego.resources_6.5.0.jar` in the directory `<ORABPM_HOME>/studio/webapps/workspace/WEB-INF/lib`.
This file contains almost all the English resources used by the application.
2. Extract the contents of the file `fuego.resources_6.5.0.jar` into a new directory.
3. Search for an existing Workspace translation file in the directory `<ORABPM_HOME>/studio/webapps/workspace/WEB-INF/lib`.
For example, search for: `fuego.resources_fr_6.5.0.jar`. This is the French translation.
4. Extract the contents into another new directory. Use this directory as a template for the new language.
5. Replace all the properties files in the template directory with the corresponding English files you extracted from the `fuego.resources_6.5.0.jar` file.
6. Rename the files in the template directory using the code that corresponds to your language and country according to ISO-639.

For a complete list of the available codes, see <http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt>.

7. Translate the files in the template directory to the new language.
8. Modify the `MANIFEST.MF` file located in the `META-INF` in your template directory, so that it references the new language.

In the following lines, you need to replace `your_locale` for the code that identifies your new language:

- `Bundle-Name: Oracle BPM Resources your_locale Plug-in`
- `Bundle-SymbolicName: fuego.resources.runtime.your_locale; singleton:=true`

9. Modify the `plugin.xml` file located in your template directory, so that it references your new language. If necessary, also add a value for country and variant.
10. Use the Java `jar` utility to package all files in the template folder.

The name of the new jar is composed by the String `fuego.resourcesrt_`, followed by the code that identifies your language, the suffix `6.5.0` and the extension `.jar`.

For example, if your new locale is Vietnamese you need to run the `jar` tool in the following way:

```
jar -cvfm fuego.resourcesrt_vi_6.5.0.jar META-INF/MANIFEST.MF fuego fuegoblock
plugin.xml
```

11. Copy the new jar to the directories that correspond to your Oracle BPM installation.

| Installation Type | Directories |
|----------------------|-------------|
|----------------------|-------------|

| | |
|---------------|--|
| Studio | <ul style="list-style-type: none"> • <code><ORABPM_HOME>/studio/studio/eclipse/plugins</code> • <code><ORABPM_HOME>/studio/webapps/feeds/WEB-INF</code> • <code><ORABPM_HOME>/studio/webapps/workspace/WEB-INF/lib</code> |
|---------------|--|

| | |
|-------------------|---|
| Enterprise | <ul style="list-style-type: none"> • <code><ORABPM_HOME>/enterprise/ext</code> • <code><ORABPM_HOME>/enterprise/webapps/archivingviewer/WEB-INF/lib</code> • <code><ORABPM_HOME>/enterprise/webapps/feeds/WEB-INF/lib</code> • <code><ORABPM_HOME>/enterprise/webapps/papiws/WEB-INF/lib</code> • <code><ORABPM_HOME>/enterprise/webapps/portaladmin/WEB-INF/lib</code> • <code><ORABPM_HOME>/enterprise/webapps/portlets/WEB-INF/lib</code> • <code><ORABPM_HOME>/enterprise/webapps/webconsole/WEB-INF/lib</code> • <code><ORABPM_HOME>/enterprise/webapps/workspace/WEB-INF/lib</code> |
|-------------------|---|

| | |
|-------------|--|
| J2EE | <ul style="list-style-type: none"> • <code><ORABPM_HOME>/archivingviewer/WEB-INF/lib/fuego.resourcesrt_it_6.5.0.jar</code> • <code><ORABPM_HOME>/feeds/WEB-INF/lib/fuego.resourcesrt_it_6.5.0.jar</code> • <code><ORABPM_HOME>/papiws/WEB-INF/lib/fuego.resourcesrt_it_6.5.0.jar</code> • <code><ORABPM_HOME>/portaladmin/WEB-INF/lib/fuego.resourcesrt_it_6.5.0.jar</code> • <code><ORABPM_HOME>/webconsole/WEB-INF/lib/fuego.resourcesrt_it_6.5.0.jar</code> • <code><ORABPM_HOME>/workspace/WEB-INF/lib/fuego.resourcesrt_it_6.5.0.jar</code> |
|-------------|--|

12. Restart your BPM applications.
13. If you are modifying an enterprise installation, you must regenerate the ear file and re-deploy the Process Engine.

The new language appears as an option in Oracle BPM Workspace Settings.

Oracle BPM WorkSpace Layout Customization

You can customize the WorkSpace layout to meet the needs of end users.

You can define WorkSpace layout at the following levels:

- Individual layout customization

Each user can customize their layout. The changes they make are available only to them.

- Role based layout customization

You can define different layouts for the different roles of your organization. For more information, see [Defining Role Based Layouts](#) on page 21.

- WorkSpace Default layout customization

You can change the Default layout for all the users. To set a default layout, follow the procedures described in [Changing Oracle BPM WorkSpace Default Layout](#) on page 27.

Reasons for Customizing Oracle BPM WorkSpace Layout

Customizing WorkSpace layout can help you adapt it to the specific requirements of the end user. You can change the WorkSpace layout by adding or removing panels, or by changing their position on the screen.

Adding New Panels

There are a number of occasions you may want to add new panels. For example, when you want to:

- Monitor several views at a glance. To do this, you would add multiple Work Items panels.
- Group similar applications. To do this, you would add multiple Applications panels and configure them to show different subsets of applications. For example, you can show the applications related to a set of processes in one panel, and the applications related to a different subset of processes in a different panel.
- Monitor different business indicators simultaneously. To do this, you would add multiple Dashboard panels.

Changing the Position of Panels

You might need to change the position of panels:

- To adapt the WorkSpace for the use in different cultures
- To increase the usability for left-handed users
- To make the WorkSpace resemble the layout of an application the users are familiar with

Removing Panels

You can remove panels:

- To forbid the access to applications
- To restrict the user interaction to the Work Items panel
- To minimize the amount of information on screen

WorkSpace Layouts

Oracle BPM WorkSpace allows you view different *layouts* according to the roles assigned to the current user.

A layout is a set of pages visible to the users in a certain role.

A layout contains information about the layout of the pages it contains and the preferences defined for those panels.

A page contains one or more panels. You can group related panels in a page. For example, you may want to create a separate page to group all the panels you need to participate in a certain process.

The available pages are displayed like tabs, each tab is identified by the label of the page. You can select which page you are currently viewing by clicking on its corresponding tab. If the layout contains only one page, the tab is not shown.

You may see several layouts at the same time if you are assigned to different roles, or if several layouts are assigned to the your role.

Oracle BPM WorkSpace comes with a Default layout that is only available to the logged in user. The default layout contains a single page labelled Default. If this is the only page in the layout, then the tab for this page is not visible. If edition is enabled you can modify this layout by adding pages or adding components to the current pages.

The changes you make to the Default layout are only available to you. If you need to make changes to the default layout and make them available for all the users of WorkSpace, then you need to export the layout and then configure WorkSpace to use this layout for the Default layout. For more information, see [Oracle BPM WorkSpace Default Layout Customization](#) on page 27.

Defining Role Based Layouts

Oracle BPM allows you to define layouts and assign them to different roles. You can do this from Oracle BPM Studio or from Oracle BPM WorkSpace.

Oracle BPM Studio

You can define role based layouts using Studio. In Studio WorkSpace, all the users are considered administrators, so you can use any user to define the layout. However the user must have assigned the roles for whom you define the layout.

When you define a layout using Studio WorkSpace, Studio stores the layout file in the BPM project. Later on in the development cycle you can publish this project in an Enterprise installation and import the defined layouts. You should use this option if you need to deploy your project in multiple locations, so that the layouts are included in your project and you do not have to define them for each location.



Note: Importing a new version of your project, deletes the layouts defined using an administrator user in an Enterprise installation.

Oracle BPM WorkSpace

To define a layout from WorkSpace you need to log in as an administrator user. Your administrator user must have assigned the roles for whom you define the layout.

Creating a New Layout

The following procedure shows you how to create layouts and assign them to different roles.

The following procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM WorkSpace Layout Edition](#) on page 26.

To create a new layout:

1. Log in to WorkSpace.

The user should be an administrator and must have the roles that are to provide access to the layout.

2. In the upper left corner of the header, click **Edit Mode On**.

A section to manage layouts appears.

3. Click **Create Layout**.


The **Layout Properties** window appears.

4. Enter a label to identify the new layout.

5. Select the roles that use this layout.

a) Select a role from the **Roles** list.

b) Click .

 **Note:** You must select at least one role.

The selected role appear on the list on the right.

6. Click on the arrow to assign the selected role to the layout.

7. Click **OK**.

A new empty layout appears and the drop-down list **Current layout** shows the label of the new layout.

8. Design the layout by adding new pages and adding new panels to those pages.

For information on how to add new pages see [Adding a Page](#) on page 23.

For information on how to add components to a page see [Adding a Panel](#) on page 24.

9. In the upper left corner of the header, click **Edit Mode Off**.

If you are using Studio WorkSpace the layout appears in the **Project Navigator** tree, under the **Layouts** node located under the **Custom Views** node.

Removing a Layout

The following procedures shows you how to remove a layout.

This procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option.

To remove a layout:

1. In the upper left corner of the header, click **Edit Mode On**.

A section to manage layout appears.

2. Select the layout you want to remove from the **Current** drop-down list.

3. Click **Remove Layout**.

4. In the upper left corner of the header, click **Edit Mode Off**.

The selected layout is removed.

Configuring a Layout

You can modify the label and the roles that have access to a layout. The following procedure shows you how to configure the properties of an already existing layout.

The following procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option.

To modify the properties of a layout:

1. In the upper left corner of the header, click **Edit Mode On**.
A section to manage layout appears.
2. Click **Layout Properties**.
The **Layout Properties** window appears.
3. Modify the properties.
4. Click **OK**.
5. In the upper left corner of the header, click **Edit Mode Off**.

The new properties are applied to the layout.

Modifying a Layout

Oracle BPM allows you to define a different layout for the different roles defined in the organization.

You can modify a layout by:

- adding pages. See [Adding a Page](#) on page 23.
- modifying existing pages. See [Modifying a Page](#) on page 24.
- removing existing pages. See [Removing a Page](#) on page 24.

Adding a Page

The following procedure shows you how to add a new page to the current layout.

The following procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM WorkSpace Layout Edition](#) on page 26.

To add a page to the current layout:

1. Log in to WorkSpace.
2. In the upper left corner of the header, click **Edit Mode On**.
The action **Add Components** appears.
3. Click **Add Components**.
4. Click the **Add Page** tab.
5. Enter a label to identify the page, in the **Label** text box.
6. Click **Add**.
The new page appears.
7. Click **Edit Mode Off**.

This action is located in the upper left corner of the header.

Modifying a Page

The following procedures show you how to change Workspace default layout for all the users of the application.

The following procedure requires you to enter Workspace edit mode. By default Workspace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM Workspace Layout Edition](#) on page 26.

To modify a page in the current layout:

1. Click **Edit Mode On**.

This action is located in the upper left corner of the header.

2. Create the desired page layout.

You can change the page layout by:

- adding new panels. See [Adding a Panel](#) on page 24.
- changing the position of panels. See [Changing the Position of a Panel](#) on page 25.
- changing the way panels interact with each other. See [Configuring Panel Interaction](#) on page 34
- removing panels. See [Removing a Panel](#) on page 25

3. Click **Edit Mode Off**.

This action is located in the upper left corner of the header.

Removing a Page

To configure the Workspace layout according to the requirements of the user, you can remove panels.

The following procedure requires you to enter Workspace edit mode. By default Workspace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM Workspace Layout Edition](#) on page 26.

Your layout must contain more than one page. You cannot remove a page if it is the only page in your layout.

To remove a panel from the current layout:

1. Log in to Workspace.

2. Click **Edit Mode On**.

This action is located in the upper left corner of the header.

A minus sign appears to the left of the label of the page.

3. Click - (minus sign) of the page you want to remove.

4. Click **Edit Mode Off**.

This action is located in the upper left corner of the header.

The page is removed from Workspace.

Adding a Panel

To configure Workspace layout according to the requirements of the users, you can add new panels.

The following procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM WorkSpace Layout Edition](#) on page 26.

To add a panel to the WorkSpace viewed by a certain user:

1. Log in to WorkSpace.
2. Click **Edit Mode On**.
This action is located in the upper left corner of the header.
The action **Add Components** appears.
3. Click **Add Components**.
4. Click the **Add Panel** tab.
5. Select the type of the panel to add.
6. Enter a label to identify the panel, in the **Label** text box.
7. Click **Add**.
The new panel appears in edit mode so that you can configure it.
8. Click **Edit Mode Off**.

The new panel is added to the current page.

Changing the Position of a Panel

To meet user requirements, you can change the position of a panel.

The following procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM WorkSpace Layout Edition](#) on page 26.

To change the position of a panel:

1. Log in to WorkSpace.
2. Click **Edit Mode On**.
This action is located in the upper left corner of the header.
The actions to move, configure and remove a panel appear on each of the panels that make up WorkSpace.
3. Click on the arrows of the panel you want to move to change its position on the screen.
4. In the upper left corner of the header, click **Edit Mode Off**.

Removing a Panel

To configure the WorkSpace layout according to the requirements of the user, you can remove panels.

The following procedure requires you to enter WorkSpace edit mode. By default WorkSpace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM WorkSpace Layout Edition](#) on page 26.

To remove a panel from the current layout:

1. Log in to WorkSpace.
2. Click **Edit Mode On**.
This action is located in the upper left corner of the header.
The actions to move, configure and remove a panel appear on each of the panels that make up WorkSpace.

3. Click **Remove** on the panel you want to remove.
4. In the upper left corner of the header, click **Edit Mode Off**.

The panel is removed from Workspace.

Defining Layouts Using Oracle BPM Studio Workspace

The following procedure shows you how to define a layout for one or more users using Oracle BPM Studio Workspace.

Before following this procedure you need to create a participant and assign to that participant the roles that are to provide access to the layout.

To define a layout using Studio Workspace:

1. Launch Studio Workspace.
2. Log in to Studio Workspace
3. Create and modify layouts following the procedures described in [Creating a New Layout](#) on page 22.

The new layout appears in the **Project Navigator** tree, under the **Layouts** node located under the **Custom Views** node.

Enabling Oracle BPM Workspace Layout Edition

Layout edition is disabled by default. The following procedure shows you how to enable it.

To enable layout edition you need to edit the Workspace configuration file. This file is located under `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

1. Edit the Workspace configuration file.
2. Set the value of the property `fuego.workspace.enableLayoutEdition` to true.
3. Restart Workspace.

When you enter the Workspace edit mode, the action to add panels is enabled. Each panel shows the actions to move and delete it.

Oracle BPM Workspace Default Layout Customization

Oracle BPM Workspace comes with a Default layout. This layout is available even if your roles do not have other layouts assigned to them.

The changes you make to the Default layout are available only to you. If you need to make these changes available to all Workspace users you need to export it and configure Workspace to use the exported layout.

When you export the Default layout it is stored in an XML file. You must not modify this file manually. If you need to make changes, make them in the Workspace and export the Default layout again.

For more information on how to export Workspace Default layout, see [Exporting Oracle BPM Workspace Default Layout](#) on page 27.

For more information on how to import a customized Default layout, see [Importing Oracle BPM Workspace Default Layout](#) on page 28.

Changing Oracle BPM Workspace Default Layout

The following procedures show you how to change Workspace default layout for all the users of the application.

The following procedure requires you to enter Workspace edit mode. By default Workspace edit mode is enabled. However the administrator may disable this option. To enable edit mode follow the procedures described in [Enabling Oracle BPM Workspace Layout Edition](#) on page 26.

To change Workspace default layout:

1. Launch Studio Workspace and log in.
2. Click **Edit Mode On**.

This action is located in the upper left corner of the header.

3. Create the desired layout.

You can change the Workspace layout by:

- adding new panels
- changing the position of panels
- removing panels

4. Export Workspace Default layout.

For information on how to export Workspace Default layout, see [Exporting Oracle BPM Workspace Default Layout](#) on page 27.

5. Import Workspace preferences into an Enterprise installation.

For information on how to import Workspace preferences, see [Importing Oracle BPM Workspace Default Layout](#) on page 28.

Exporting Oracle BPM Workspace Default Layout

You can configure Workspace Default layout and later import these Default layout to make it available to all the users of Oracle BPM Workspace.

To export the Default layout:

1. Log in to Oracle BPM WorkSpace.

You can use Studio WorkSpace or an Enterprise installation WorkSpace.

2. In the upper left corner of the header, click **Edit Mode On**.

The action **Export Preferences** appears.

3. Click **Export Default Layout**.



Note: This action uses pop-up windows. Make sure your browser is configured to allow pop-up windows otherwise the file browser does not display. Some browsers may directly download the file to the directory you selected to store downloads.

4. Save the file `preferences.xml` to disk.

The file `preferences.xml` that contains the Default layout is saved to disk.



Note: For information on how to import these preferences into an Enterprise installation, see [Importing Oracle BPM WorkSpace Default Layout](#) on page 28.

Importing Oracle BPM WorkSpace Default Layout

The following procedure shows you how to configure Oracle BPM WorkSpace to use an exported Default layout.

The following procedure shows you how to import an exported Default layout:

To do this you need to edit the WorkSpace configuration file `workspace.properties` in `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

1. Copy the exported Default layout file to the directory `<ORABPM_HOME>/webapps/workspace/WEB-INF`.
2. Edit the WorkSpace configuration file.
3. Add the key `fuego.workspace.preferences.defaultXml` and set its value to the path leading to the Default layout file.

The path of the Default layout file is relative to the root of WorkSpace application.

For example, to use the Default layout stored in the file `default_layout.xml` you need to add the following key value pair:

```
fuego.workspace.preferences.defaultXml=/WEB-INF/default_layout.xml
```

4. Restart the WorkSpace application.

The next time you log in to WorkSpace, it show the imported Default Layout.

Oracle BPM WorkSpace Content Customization

The following section shows you how to customize Oracle BPM WorkSpace content and dynamically change the display preferences that it uses to render this content.

Customizing the Work Items and Applications Panel Content

You can change the information displayed by the Work Items and Applications panels by assigning them a different default view or a custom view.

By default the Work Items panel displays the Inbox view. The user can select an alternative view from the **View** drop-down list located in the left upper corner of the Work Items panel.

To change the default view, edit the panel preferences and select a different default view. The views available for selection are predefined and custom Instances Views.

By default the Applications panel shows all the available applications using the selected **Default Views Generation** option. You can show a subset of the available applications by selecting a different Application view.

There can be various reasons for changing the information it displays. For example, you may want to filter the displayed information, or, when adding new panels, you may want to configure each one to display different information.

You can change the default content of the WorkList and Applications panel at two different levels:

- User level
- For all users

User Level

If WorkSpace layout edition is enabled, each user can configure the Work Items panel or the Applications panels, or both, to display the information contained in a custom view.

To assign them a new default view, follow the procedure described in [Changing the Content of the Work Items and Applications Panels](#) on page 30.

For All Users

WorkSpace stores panel preferences in the layout that contains the panel.

If you want to modify the content of a panel that is part of the default layout then you need to follow the procedures described in [Changing Content of the Work Items and Applications Panels for Panels in the Default Layout](#) on page 30.

To modify the content of panel that is part of a role based layout:

- From a Studio WorkSpace: Modify their content following the procedures described in [Changing the Content of the Work Items and Applications Panels](#) on page 30. When you leave the edit mode, Studio saves the change to your BPM Project.
- From an Enterprise WorkSpace: Log in using an administrator user and modify their content following the procedures described in [Changing the Content of the Work Items and Applications Panels](#) on page 30. When leave the edit mode, the changes are available to all the roles assigned to the modified layout.

Changing Content of the Work Items and Applications Panels for Panels in the Default Layout

The following procedure shows you how to change the content of the Work Items and Applications panel for panels that are part of the Default layout

To change the default content of the Applications or Work Items panel in an Enterprise installation you need to publish and deploy the views that define the content of those panels.

To change the content of panels that are part of the Default layout:

1. Launch WorkSpace and log in.
2. Click **Edit Mode On**.
This action is located in the upper left corner of the header.
3. Edit either the Work Items panel, or the Applications panel, or both, to change the content they display.
For information on how to do this, see [Changing the Content of the Work Items and Applications Panels](#) on page 30.
4. Export WorkSpace Default layout.
For information on how to do this, see [Importing Oracle BPM WorkSpace Default Layout](#) on page 28.
5. Import WorkSpace Default layout to your Enterprise installation.
For information on how to do this, see [Importing Oracle BPM WorkSpace Default Layout](#) on page 28.
6. Re-start WorkSpace.

Changing the Content of the Work Items and Applications Panels

The following procedure shows you how to assign a view to the Work Items or Applications panels to change their content.

To change the default content of the Work Items panel or the Applications panel:

1. Log in to WorkSpace.
2. Click **Edit Mode On**.
This action is located in the upper left corner of the header.
3. Click **Edit Mode On** on the panel you want to edit.
4. Select a view.
 - The Work Items panel allows you to choose from default and custom Instances Views.
 - The Applications panel allows you to chose from default and custom Applications Views.
5. Click **Apply**.
6. Click **Edit Mode Off**.
7. Click **Edit Mode Off**.

This action is located in the upper left corner of the header.

The content of the edited panel corresponds to the one of the selected view.

Customizing the Work Items Panel Appearance

You can change the appearance of the rows and cells that make up the Work Items panel, based on the instance information that corresponds to each row.

You might want to change the colors and fonts of a cell or a row to draw attention to the work items that match a certain condition. WorkSpace provides a Java interface that you can implement to achieve this.

This interface allows you to:

- Change the style of a row or a cell based on the work item information
- Change the HTML used to render the value of a certain variable

Each of the methods of this interface receives a parameter of the type `fuego.papi.InstanceInfo`, that contains information about the work item. You can obtain work item information from this object, and based on it render the rows, cells or external variables values.

For information on how to compile and register this class, see [Changing the Appearance of Work Item Panel Based on the Work Item Information](#) on page 31.

For a reference of the `WorkListDecorator` interface, see [Interface WorkListDecorator Reference](#) on page 48.

Changing the Style of a Cell or a Row Based on the Work Item Information

The following list shows examples of situations where you might need to change the style of a row or a cell:

- To display a red background for all the work items that are overdue
- To decrease the font size of the Description field to accommodate long descriptions
- To change the font color for unassigned work items

To change the style of a cell you must implement the method `getCellStyle` of the interface `WorkListDecorator`.

To change the style of a row you must implement the method `getRowStyle` of the interface `WorkListDecorator`.

These two methods return a String containing a CSS inline style. This style is used to render the corresponding cell or row.

Changing How a Value is Rendered

The interface `WorkListDecorator` provides a method that returns the HTML used to render the value of a variable.

Being able to change the HTML allows you not only to use an icon to display the value of the external variables, but you could also add the HTML code to add a button that looks up the content of the variable in a search engine.

To change the HTML used to render the value of a variable, you must implement the method `getValue` of the interface `WorkListDecorator`.

Changing the Appearance of Work Item Panel Based on the Work Item Information

Oracle BPM WorkSpace 6.0 supports the customization of cells based on the work item information. The following procedure shows you how to customize the information displayed in the Work Items panel, based on the work item information.

To follow this procedure you need to have a Java SE Development Kit 1.5 (JDK 1.5) installed.

To customize the appearance of the information displayed in the Work Items panel:

1. Create a Java class that implements the interface `workspace.model.view.WorkListDecorator`.
 - a) Add the JAR files `fuego.workspace.jar` and `fuegopapi-client.jar` to the CLASSPATH.

The following table shows the location of these JAR files:

| JAR File | Location |
|----------------------------------|--|
| <code>fuego.workspace.jar</code> | <code><ORABPM_HOME>/webapps/workspace/WEB-INF/lib</code> |

| JAR File | Location |
|----------------------|---|
| fuegopapi-client.jar | <ORABPM_HOME>/client/papi/lib/fuegopapi-client.jar. |

- b) Create a Java class that implements the interface `workspace.model.view.WorkListDecorator`. For a complete reference of this interface, see [Interface WorkListDecorator Reference](#) on page 48.
 - c) Compile the class created in the previous step.
You must compile this class with JDK 1.5.
- Copy the compiled class to the directory `<ORABPM_HOME>/webapps/workspace/WEB-INF/classes`. If your class is distributed in a package, you need to create a JAR file and copy it to `<ORABPM_HOME>/webapps/workspace/WEB-INF/lib`.
 - Edit the Workspace configuration file, `workspace.properties` located under `<ORABPM_HOME>/webapps/workspace/WEB-INF`.
 - Add the key `fuego.workspace.worklist.styleResolverClassname` and set the value of this property to the fully qualified name of the class created in the previous steps.

For example, to use the class `customization.CustomdWorkListDecorator`, you need to add the key value pair
`fuego.workspace.worklist.styleResolverClassname=customization.CustomWorkListDecorator`.

The next time you start up Workspace it displays the value of this column with the specified customization.

WorkListDecorator Implementation Example

The following example changes the work item reception date, so that if it was received today it shows the word "Today" with an icon, and the relative time. It also shows a red background for those work item that have a high priority.

The following class implements the interface `fuego.workspace.model.view.WorkListDecorator`.

It implements the method `getRowStyle()` so that the background color of the row changes to red if the work item has a high priority.

The method `getCellStyle()` returns null because this example does not change the style for any cell.

It also implements the method `getValue` so that if the arrival date is today, it displays the word today and an icon. In this case instead of showing the arrival time, it displays how many hours and minutes have passed since its arrival.

The `getValue()` method checks that the `viewId` corresponds to the Inbox View to ensure that only those Work Items panels that display the information of this view use this display setting. This is useful when you have multiple Work Items portlets displaying different views. The other reason to check the view is to ensure that the variable you use to determine the display preferences exists.



Note: When implementing any of these methods make sure that the variable you are using to determine the display properties exists and its value is not null.

```
import fuego.lang.Interval;
import fuego.lang.Time;
import fuego.papi.InstanceInfo;
import fuego.papi.Presentation;
import fuego.papi.Priority;
import fuego.papi.VarDefinition;
import fuego.papi.View;
import fuego.workspace.model.view.WorkListDecorator;

import java.util.Locale;
```



```

public class CustomWorkListDecorator
    implements WorkListDecorator {

    public String getRowStyle(String viewId, InstanceInfo instanceInfo,
int rowIndex) {
        return instanceInfo.getPriority() == Priority.HIGHEST ?
"background-color:IndianRed" : null;
    }

    public String getCellStyle(String viewId, InstanceInfo instanceInfo,
Presentation.Column column, int rowIndex)
{
        return null;
    }

    public String getValue(String viewId, InstanceInfo instanceInfo,
Presentation.Column column,
        Locale locale, String currentValue, int rowIndex)
    {
        String result = currentValue;

        if (View.INBOX_DEFAULT_ID.equals(viewId)) {

            if (column.getId().equals(VarDefinition.RECEIVED_ID)) {
                Time receptionTime = instanceInfo.getReceptionTime();
                Time today = Time.now();
                if (receptionTime.getDate().equals(today.getDate())) {
                    Interval relativeTime = Time.sub(today, receptionTime);

                    int relativeHours = relativeTime.getHoursOnly();
                    int relativeMinutes = relativeTime.getMinutesOnly();
                    String relativeTimeString = relativeHours > 0 ?
relativeHours + " h " + relativeMinutes + " m" :
relativeMinutes + " m";
                    result = "<table><tr><td nowrap
class=bpmWorkspaceNormalText>" +
                        "<img src='/workspace/img/time.gif' /> Today "
+
                        "(" + relativeTimeString + "
ago)</td></tr></table>";
                }
            }

            return result;
        }
    }
}

```

Panel Interaction Customization

WorkSpace panels interact with each other by triggering updates on user selection. WorkSpace default panels come with a default configuration that determines how they interact with each other. You can modify this configuration.

By default, WorkSpace panels interact in the following way:

- Selecting a view in the View panel triggers an update on the Work Items panel content.
- Selecting a work item in the Work Items panel triggers an update on the Work Item Detail panel.

If you use WorkSpace with the default set of panels, generally there is no need to change the default configuration. But if you add panels to the default configuration then you probably need to configure their interaction with the rest of the panels. For example, if you add a second Work Items panel it is not necessary for both panels to interact with the same View panel. Instead you might configure one of them to ignore the View panel selection and display a specific view.

To change or remove the panel that triggers the update, configure it by following the procedure described in [Configuring Panel Interaction](#) on page 34.

The information about the interaction between panels is stored in the layout that contains those panels.

Configuring Panel Interaction

You can change the way panels interact with each other. The following procedure shows you how to configure a panel so that it reacts to the changes in another panel.

The following procedure requires you to enter WorkSpace edit mode and have permission to modify the panel interaction. By default these options are enabled. However the administrator may disable them.

To configure panel interaction:

1. Log in to Oracle BPM WorkSpace.
2. In the upper right corner of the header, click **Edit Mode On**.
3. On the panel whose content you want to update, click **Edit Mode On**.
4. Select the panel or panels that trigger the update from the **Listen to** list.
5. Click **Apply**.
6. Click **Edit Mode Off**.
7. In the upper right corner of the header, click **Edit Mode Off**.

When the user selects or modifies the selected panel, it triggers the update of the edited panel.

Enabling Panel Interaction Configuration

Panel interaction configuration is disabled by default. The following procedure shows you how to enable it.

To enable panel interaction configuration you need to edit the WorkSpace configuration file. This file is located under `<ORABPM_HOME>/webapps/workspace/WEB-INF`.

1. Edit the WorkSpace configuration file.
2. Set the value of the property `fuego.workspace.enableConfigurableListenerMode` to `true`.
3. Restart WorkSpace.

When you edit the display properties of a panel it displays a list of panels to listen to.

Configuring WorkSpace to Show Interactive Executions in the Work Item Detail Panel

By default WorkSpace displays interactive executions in a dialog window. The following procedure shows you how to configure WorkSpace to show interactive executions in the Work Item Detail panel.

1. Log in to WorkSpace.
2. Click **Edit Mode On**.
This action is located in the upper left corner of the header.
3. Click on **Edit Mode On** on the Work Items panel.
4. Select **Broadcast Event** as the **Execution Type**.
5. Click **Apply**.
6. Click on **Edit Mode Off** on the Work Items panel
7. Click **Edit Mode Off**.

This action is located in the upper left corner of the header.

WorkSpace displays interactive executions in the Work Item Detail panel.

Oracle BPM WorkSpace Authentication Customization

This section describes how to define a custom authentication for Oracle BPM WorkSpace.

Single Sign On (SSO)

SSO is a security mechanism that allows a user to login once and have access to multiple web applications.

Oracle BPM Enterprise uses SSO to allow users to use the same login and password they use for other applications that share the environment with Oracle BPM web applications. The users need to enter their credentials only one time to access any of the applications. The following applications can use SSO:

- Process Administrator
- WorkSpace
- WorkSpace Administrator
- PAPI



Note: SSO is not enable by default. To use SSO, you must manually enable it.

Oracle BPM Enterprise Standalone

On the standalone version of Oracle BPM, you can enable SSO individually for each web application using the Admin Center. When enable SSO using the Admin Center, you must also specify the class used for each web application. This class points to the SSO mechanism of the application server container.

The default class for the Process Administrator, WorkSpace Administrator and PAPI applications is:

`fuego.web.SSOUserLogin`

The default class of the WorkSpace application is: `fuego.workspace.security.SSOWorkSpaceLogin`

Additionally, you can also implement a custom class to supply your own SSO implementation. See the *Oracle BPM PAPI Developer Guide* for more information.

Oracle BPM Enterprise on J2EE

When using the J2EE version of Oracle BPM, SSO is configured on the application server. See you application server documentation for more information.

Developing a Custom Single Sign-On Implementation

Oracle BPM WorkSpace can use a custom Single Sign-On (SSO) implementation to authenticate users. The following procedures show you how to develop a custom SSO implementation for PAPI Web Service.

To compile the class containing your custom SSO implementation you need to have a Java SE Development Kit 5 (JDK 5) installed. You can download the JDK from [Sun Developer Network](#).

To configure SSO Authentication:

Implement the interface `fuego.sso.SSOWorkSpaceLoginInterface`.

a) Add the file `fuego.core.jar` to the CLASSPATH.

This file resides in `<ORABPM_HOME>/lib`.

b) Create a Java class that implements the interface `fuego.sso.SSOWorkspaceLoginInterface`.

This class should contain your custom SSO implementation.

For more information on this interface, see [Oracle BPM 10.3 Java Interfaces](#).

- c) Compile the class created in the previous step.

Configuring Custom Single Sign-On Authentication

The following procedure shows you how to configure your web application to use a Custom Single Sign-On implementation.

The following procedure assumes that you have developed and compiled a class that implements the corresponding SSO interface.

To configure your web application to use your custom Single Sign-On implementation:

1. Copy the compiled class that contains your SSO implementation to the `WEB-INF/lib` directory of the web application.

This directory is located under `<ORABPM_HOME>/webapps/<Web_Application_Name>`.

2. Edit the web application configuration and select the SSO option.
3. Enter the fully qualified name of the class containing the SSO implementation.

The next time you start the web application, SSO authentication is activated.

Oracle BPM Workspace Customization Reference

The following sections contain the reference information needed to successfully execute the procedures described in this guide.

Workspace Configuration File Reference

This reference describes the key-value pairs contained in Workspace configuration file. Workspace configuration file is a properties file `workspace.properties` located in the directory `<ORABPM_HOME>/webapps/workspace/WEB-INF`

Directory Settings

| Property Key | Default Value | Possible Values | Description |
|---|---|-----------------------|---|
| fuego.workspace.DIRECTORY_ID | "default" | A valid directory ID. | The directory ID that identifies the directory Workspace connects to. |
| remote.config.url | Specifies a remote location for the directory configuration file. | N.A. | A valid remote location URL. |
| fuego.workspace.container-auth.directory.preset | null | A valid PRESET ID. | The PRESET ID Workspace uses to authenticate against the servlet container. |

Workspace Settings

| Property Key | Default Value | Possible Values | Description |
|--------------------------------|------------------------------------|--|---|
| fuego.workspace.debug | false | <ul style="list-style-type: none">truefalse | Enables debug mode. |
| fuego.workspace.debuggerPort | 9007 | An available port number. | Workspace HTTP debugger port. |
| fuego.workspace.sessionTimeout | Servlet container default time out | A positive value. | Specifies the timeout period in seconds, between client requests. |

Logging

| Property Key | Description |
|--------------------------------|--|
| fuego.log.workspace.severities | See Log Severity Levels on page 42 |

| Property Key | Description |
|--|--|
| fuego.log.workspace.detailLevel | The detail level filters messages that correspond to the same severity. It can vary from 1 to 10. The default detail level is 5. |
| fuego.log.workspace.file | The location where the log files are stored. <ul style="list-style-type: none"> default location: <ORABPM_HOME>/log/workspace.log |
| fuego.log.workspace.format | Defines the format of the information of the first line of a log entry. |
| fuego.log.workspace.continuationFormat | Defines the format of the information of the lines that follow the first line in a log entry. |

Process Execution Properties

| Property Key | Default Value | Possible Values | Description |
|---|---------------|---|--|
| fuego.workspace.execution.performNextActivity | false | <ul style="list-style-type: none"> true false | If the current activity has the autocomplete property set to true, execute the next activity if the current user has the required role to do so. |
| fuego.workspace.execution.waitForAutomatics | 3000 | A positive value. | Waiting time for Automatic activities in a screenflow in milliseconds. If an activity exceeds this time, the screenflow is aborted. |
| fuego.workspace.execution.externalNewWindow | true | <ul style="list-style-type: none"> true false | Display external activities in a pop up window. |

Process API Settings

| Property Key | Default Value | Possible Values | Description |
|---|---------------|-------------------|------------------------------------|
| fuego.workspace.papi.instancesCacheSize | 200 | A positive value. | Number of instances in PAPI cache. |

Single Sign On

| Property Key | Default Value | Possible Values | Description |
|-------------------------------|---------------|---|--|
| fuego.workspace.enableSSO | false | <ul style="list-style-type: none"> true false | Enables Single Sign On (SSO). |
| fuego.workspace.SSO.className | N.A. | A class implementing <code>SSOWorkspaceLoginInterface</code> interface. | Custom SSO class full name. This class must implement <code>fuego.workspace.security.SSOWorkspaceLoginInterface</code> |

| Property Key | Default Value | Possible Values | Description |
|---------------------------------|--|---|---|
| fuego.workspace.helperClassName | fuego.workspace.adapter.DefaultWorkspaceBeanHelper | A class implementing WorkspaceBeanHelper interface. | Workspace bean helper. This class should implement the interface fuego.workspace.adapter.WorkspaceBeanHelper. |

Workspace Customization

| Property Key | Default Value | Possible Values | Description |
|--|---------------|---|---|
| fuego.workspace.stylesheet | N.A. | A valid CSS file name. | CSS file that defines Workspace style. |
| fuego.workspace.imageBundleFile | N.A. | A valid image bundle file name. | Image bundle file. |
| fuego.workspace.jspBundleFile | N.A. | A valid JSP bundle file name. | JSP bundle file. |
| fuego.workspace.helpBundleFile | N.A. | A valid help bundle file name. | Help bundle file. |
| fuego.workspace.customMessageBundle | none | A valid message bundle file name. | Custom messages bundle file. |
| fuego.workspace.enableEditMode | true | <ul style="list-style-type: none"> true false | Enables Workspace edition mode. |
| fuego.workspace.enableConfigurableListenerMode | false | <ul style="list-style-type: none"> true false | Enables Workspace listeners configuration. |
| fuego.workspace.enableLayoutEdition | false | <ul style="list-style-type: none"> true false | Enables Workspace layout edition. |
| fuego.workspace.worklistStyleResolverClassname | null | A class implementing WorkListDecorator interface. | Custom Work Items panel decorator. |
| fuego.workspace.attachments.contentLength | 12 | A positive value. | Length of the description and file-name column in the Attachments table, in characters. |
| fuego.workspace.processImageTheme | BPMN | <ul style="list-style-type: none"> Classic BPMN BPMN ColorBPMN BusinessAnalyst UML | Theme used to display process images and activity icons. |
| fuego.workspace.defaultExecutionType | DIALOG | <ul style="list-style-type: none"> DIALOG POPUP | Default execution type for Applications and Work Items panels. |

| Property Key | Default Value | Possible Values | Description |
|--|--|--|---|
| fuego.workspace.executionDialog.maximize | Specifies if WorkSpace displays dialogs maximized. | <ul style="list-style-type: none"> true false | Specifies if executions dialogs are displayed maximized. If set to false, it uses the defined width and height. |
| fuego.workspace.executionDialog.width | 500 | A positive value. | Execution dialog width in pixels. |
| fuego.workspace.executionDialog.height | 600 | A positive value. | Execution dialog height in pixels. |
| fuego.workspace.popupWindows.width | 800 | A positive value. | Execution pop up width in pixels. |
| fuego.workspace.popupWindows.height | 600 | A positive value. | Execution pop up height in pixels. |
| fuego.workspace.search.rolePolicyScopes | ALL | <ul style="list-style-type: none"> ALL ALL_IN_ROLE PARTICIPANT_ROLES PARTICIPANT | Defines the WorkSpace search scope policy. Multiple policies are separated with commas. The first value is WorkSpace default selection. |
| fuego.workspace.execution.ajax.enabled | true | <ul style="list-style-type: none"> true false | Enables AJAX execution for interactive components. |
| fuego.workspace.views.editable | true | <ul style="list-style-type: none"> true false | Enables Views edition. |
| fuego.workspace.auditTrail.processImageOrientation | N.A. | <ul style="list-style-type: none"> VERTICAL HORIZONTAL | Orientation of the audit trail process image. |

RSS Feeds Application

| Property Key | Default Value | Possible Values | Description |
|---------------------------------|---------------|---|--|
| fuego.workspace.feedUrlGuessing | false | <ul style="list-style-type: none"> true false | Enables URL guessing for the RSS Feeds application. |
| fuego.workspace.feedUrl | N.A. | A valid RSS URL. | RSS feed URL. You need to define this if URL guessing is disabled. |

Optional Properties

You can optionally add the following optional properties to you WorkSpace configuration file:

| Property Key | Default Value | Possible Values | Description |
|----------------------------|---------------|-------------------|--|
| fuego.upload.FILE_MAX_SIZE | N.A. | A positive value. | <p>Specifies the maximum size in bytes, allowed for the attachments you can add to a process instance.</p> <p>Setting this property a very low value causes the rejection of most of the files. However setting a very</p> |

| Property Key | Default Value | Possible Values | Description |
|---|---------------|-------------------|---|
| <code>fuego.workspace.attachment.MAX_ATTACHMENT_SIZE</code> | | A positive value. | <p>high value can decrease the performance of the application.</p> <p>Specifies the maximum size in bytes, allowed for the files you can upload using the execution framework. This property configures the attachment size limit when using the Attachment Component or Custom JSPs.</p> <p>Setting this property a very low value causes the rejection of most of the files. However setting a very high value can decrease the performance of the application.</p> |

Workspace Extension Settings

Workspace Extension wizard uses the following properties to store configuration properties. You must not modify them manually.

- `fuego.workspace.imageServer`
- `fuego.workspace.enableWE`
- `fuego.workspace.collaboration.supportedLanguages`

Log Severity Levels

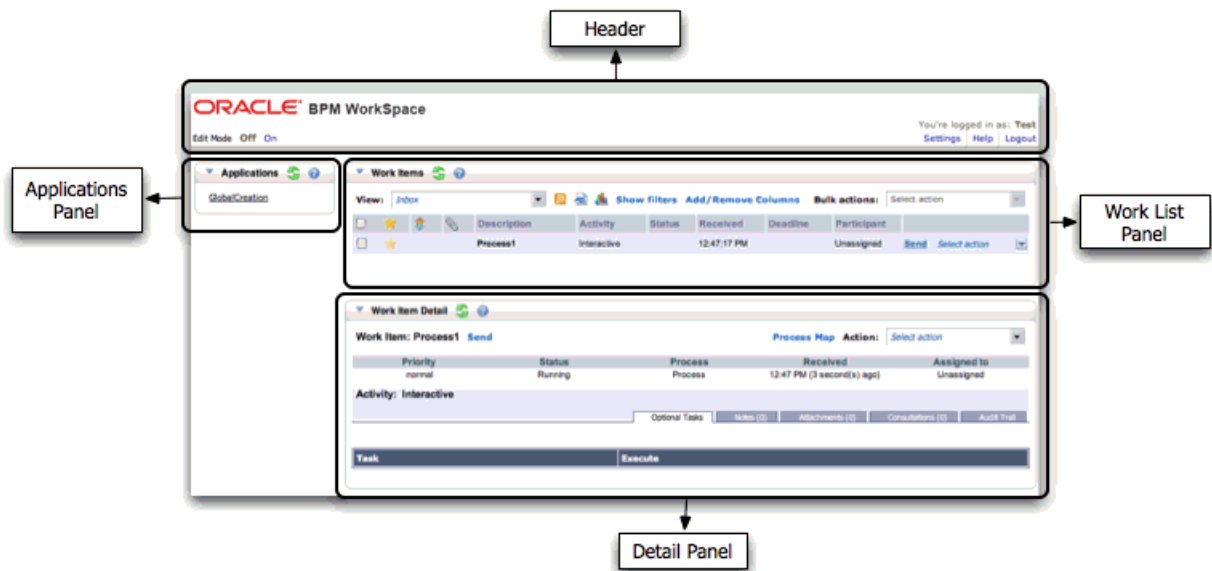
Oracle BPM allows you to define logging levels to specify the level of detail of the information stored in the Oracle BPM logs.

| Log Level | Description |
|-----------|--|
| Fatal | Specifies a serious error that may cause the application to fail. |
| Severe | Specifies a serious error that may or may not cause the application to fail. |
| Warning | Specifies a potentially harmful situation but generally does not pose a threat to the stability of an application. |
| Info | <p>Specifies informational messages that highlight the progress of the application at a high level. These can include:</p> <ul style="list-style-type: none"> • Changes in the engine state, including: start, stop, and restart. • Changes in state of engine services. • Changes in engine properties. • Changes in the state of a process deployed on the engine, including: startup, deployment, redeployment, and deprecation. • Actions of participants • Work executed by the engine automatically. |

| Log Level | Description |
|-----------|--|
| Debug | <p>Specifies informational messages that highlight the process instances at a lower level. These can include:</p> <ul style="list-style-type: none"> Tracing a process instance, including: instance creation, changing activities, routing, and locks. Changes in the state of an instance, including: running, selection, activity completion, and exceptions. Actions on a process, including: executing a task, executing an activity, and executing a ToDo Item. |

Oracle BPM WorkSpace Panels

The following diagram shows the type of the panels that compose Oracle BPM WorkSpace.



CSS Reference

The following section contains the references of the CSS classes that each of the Oracle BPM WorkSpace panels uses.

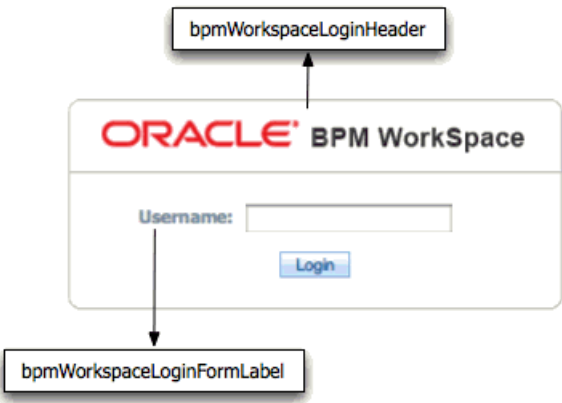
These classes are defined in Oracle BPM WorkSpace CSS file. The default CSS file is located in `<ORABPM_HOME>/webapps/workspace/css/bpmworkspace.css`.

The classes that compose this CSS are standard CSS classes. The style definition of each class consists of standard CSS properties.

Oracle BPM WorkSpace Login Screen CSS Classes

The following diagram shows the IDs of the CSS classes used to render the different components of the login screen.

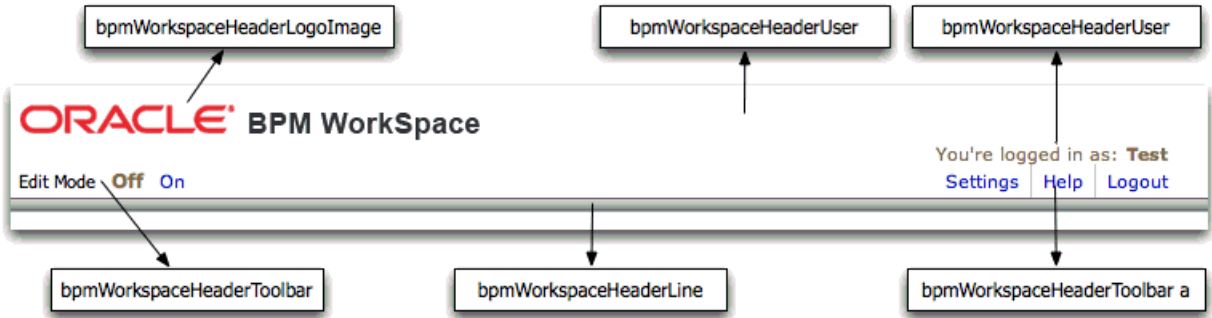
To change the appearance of the login screen, follow the procedures described in [Customizing Oracle BPM WorkSpace Login Screen](#) on page 10.



Oracle BPM WorkSpace Header CSS Classes

The following diagram shows the IDs of the CSS classes used to render the different components of the header.

To change the appearance of the header, follow the procedures described in [Customizing Oracle BPM WorkSpace Header](#) on page 11.



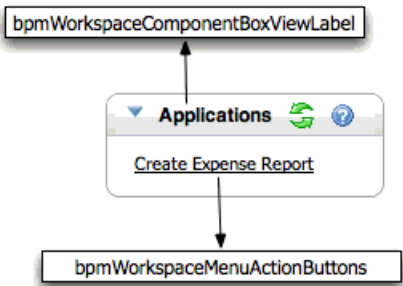
Oracle BPM WorkSpace Panels CSS Reference

The following section contains diagrams that show the CSS classes used to render the elements that make up WorkSpace panels.

To change the default CSS file, follow the procedure described in [Changing Oracle BPM WorkSpace Default CSS File](#) on page 9.

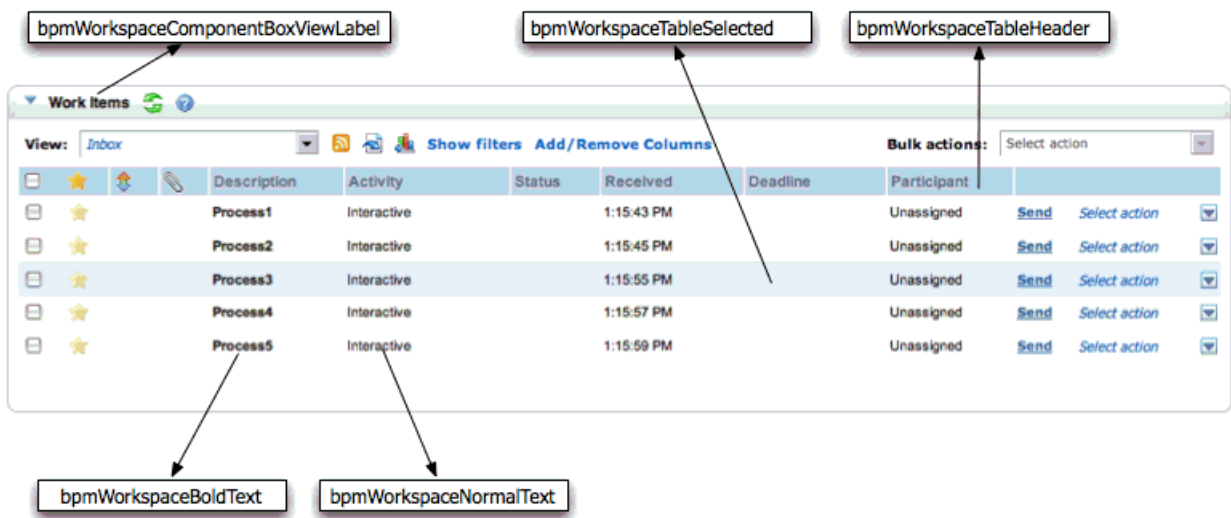
Applications Panel CSS Classes

This diagram shows the IDs of the CSS classes used to render the content of the Applications panel.



Work Items Panel CSS Classes

This diagram shows the IDs of the CSS classes used to render the content of the Work Items panel.



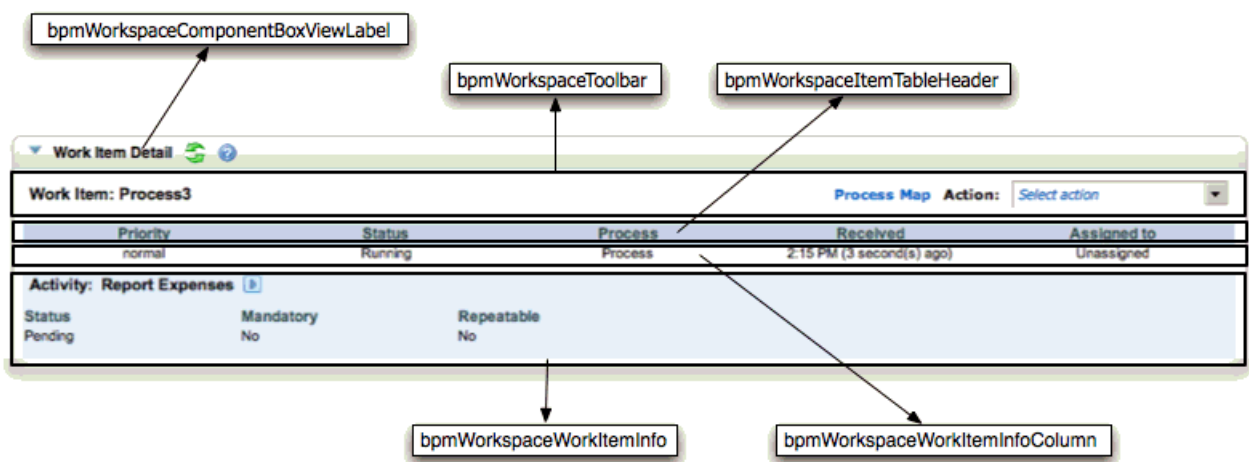
Work Item Detail Panel CSS Classes

This section shows the CSS classes used to render the information displayed in the Work Item Detail panel.

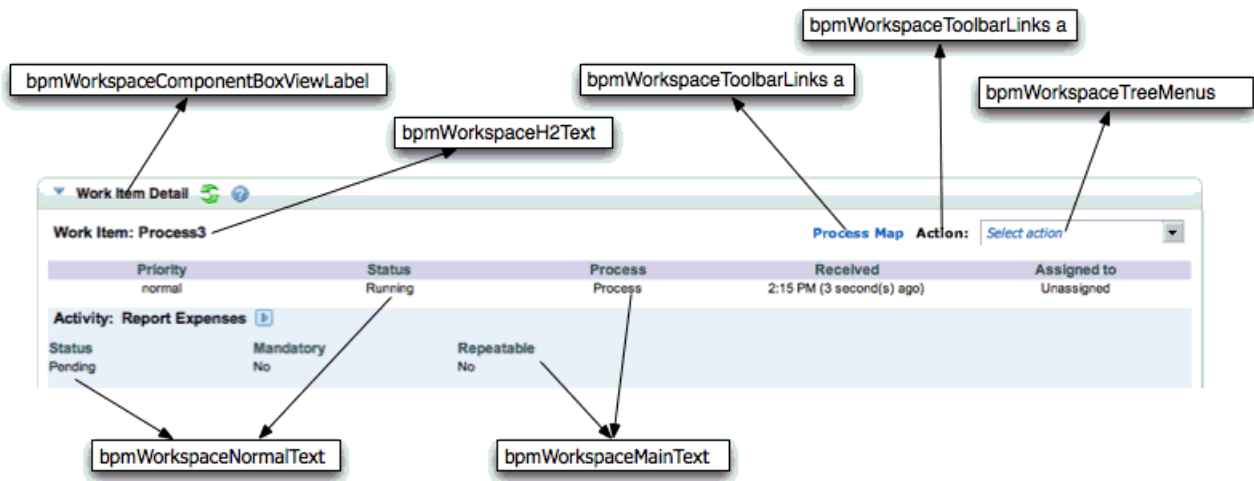
The Work Item Detail panel is divided into two parts. The upper part contains information about the work item. The lower part contains a tab panel. Each tab contains a table that shows information about one of the following:

- Optional Tasks
- Notes
- Attachments
- Consultations
- Audit Trail

The following diagram shows the IDs of the CSS classes that define the colors of the upper part of the Work Item Detail panel, where the instance information is displayed.

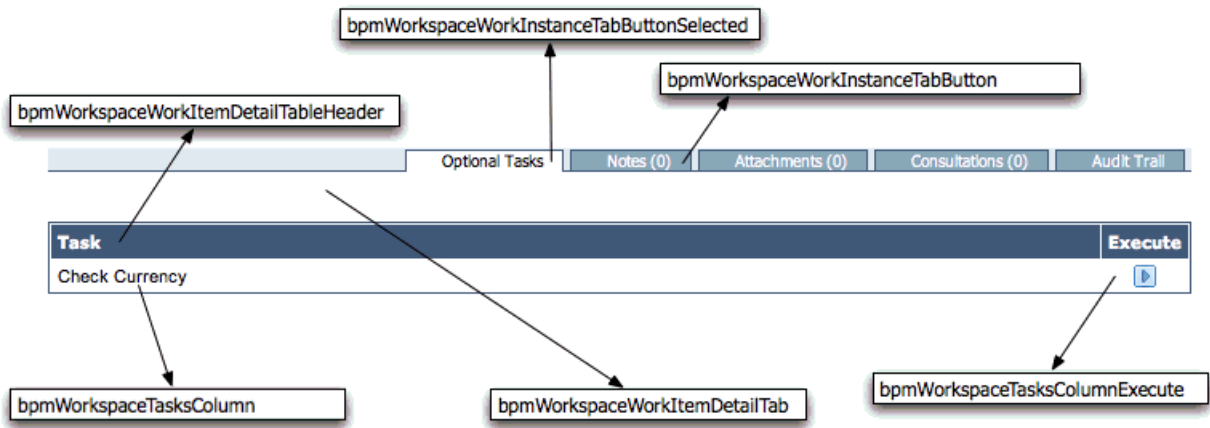


The following diagram shows the IDs of the CSS classes that define the fonts used to display the work item information.



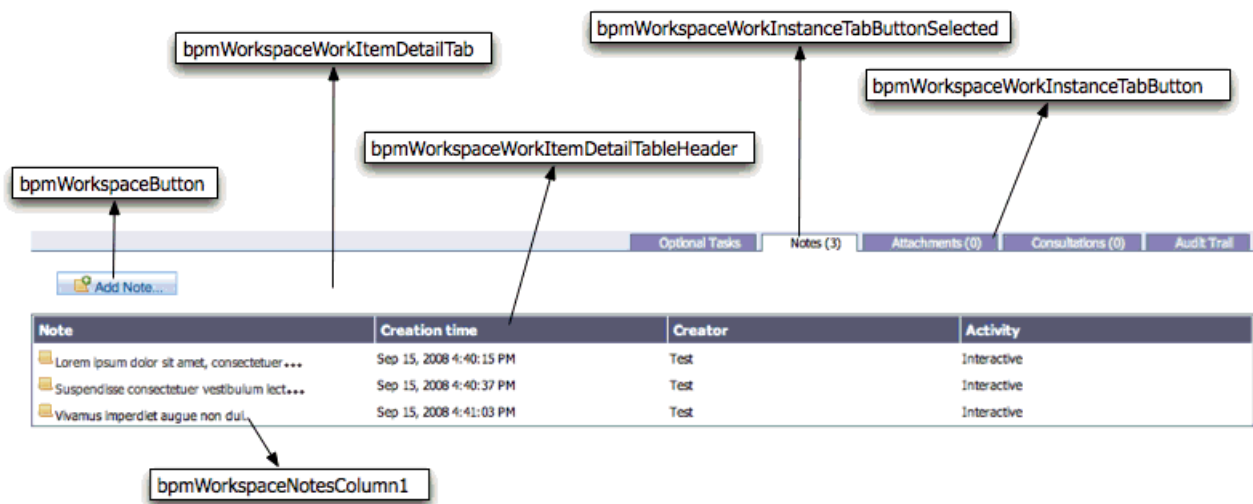
Work Item Detail Tasks Table

The following diagram shows the IDs of the CSS classes used to render the table that displays the optional tasks for the selected work item.



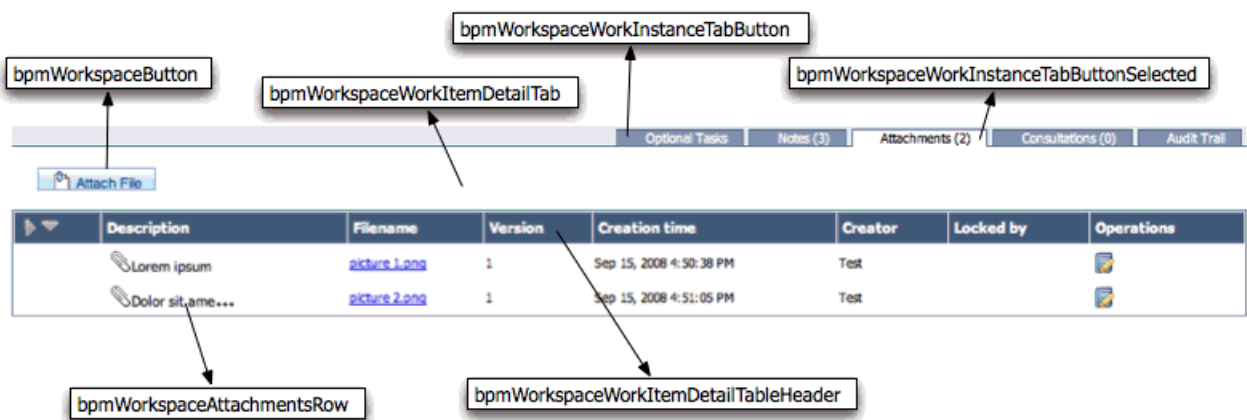
Work Item Detail Notes Table

The following diagram shows the IDs of the CSS classes used to render the table that displays the notes for the selected work item.



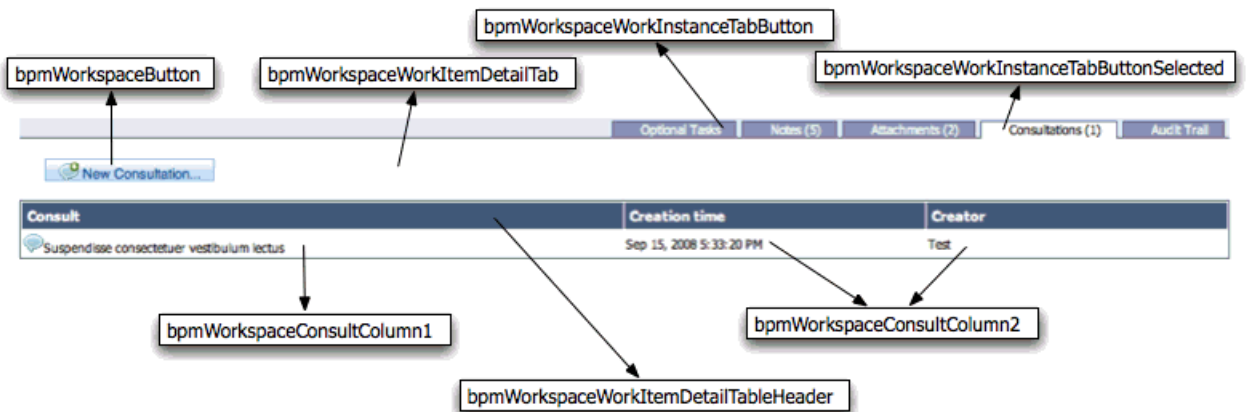
Work Item Detail Attachments Table

The following diagram shows the IDs of the CSS classes used to render the table that displays the attachments for the selected work item.



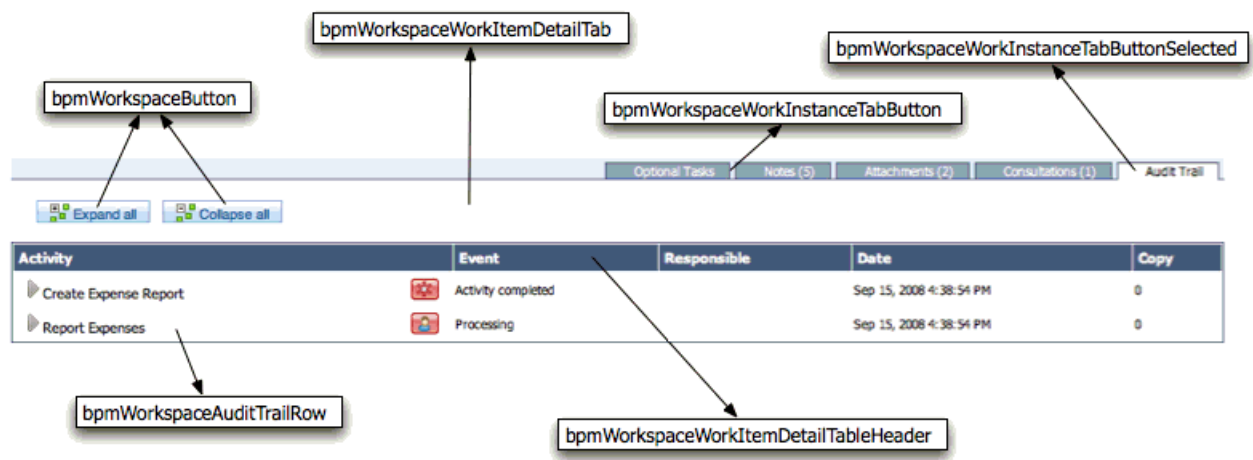
Work Item Detail Consultations Table

The following diagram shows the IDs of the CSS classes used to render the table that displays the consultations for the selected work item.



Work Item Detail Audit Trail Table

The following diagram shows the IDs of the CSS classes used to render the table that displays the audit trail for the selected work item.



Interface WorkListDecorator Reference

You need to implement this interface to customize the appearance of the rows and/or cells in the Work List panel table. The class implementing this interface should contain the logic to decide how to render a row or a cell in the Work Items panel. This logic is based on the work item information. The methods `getCellStyle()` and `getCellValue()` define how to render the cells of the Work Items panel table. The method `getRowStyle()` defines the style used to render a complete row.

`fuego.workspace.model.view.WorkListDecorator`

`getCellStyle()`

Returns a `String` containing the CSS inline style to render the cell of the given column and row. If the return value is null the cell is rendered with Workspace default style.

```
java.lang.String getCellStyle(java.lang.String viewId, fuego.papi.InstanceInfo instanceInfo, fuego.papi.Presentation.Column column, int rowIndex)
```

Example

The following `String` is an example of a valid return value:

```
"border:1px solid black;"
```

Parameters

- `viewId` - The view ID of the view assigned to the Work Items Panel.
- `instanceInfo` - The `InstanceInfo` object that represents the rendered work item.
- `column` - The `Presentation.Column` object that represents the rendered column.
- `rowIndex` - The index of the row being rendered.

Returns

The CSS inline style for the cell of the given column and row.

getValue()

Returns the HTML for the given cell value. If the method returns NULL the original value will be rendered

```
java.lang.String getValue(java.lang.String viewId, fuego.papi.InstanceInfo
instanceInfo, fuego.papi.Presentation.Column column, java.util.Locale locale,
java.lang.String originalValue, int rowIndex)
```

Note

If you need to include an image in the HTML you should copy the image to the directory <ORABPM_HOME>/webapps/workspace/img and access it in the following way:

```
img src='/img/imageFile'
```

Parameters

- viewId - The ID of the view assigned to the Work Items Panel.
- instanceInfo - The InstanceInfo object that represents the rendered work item.
- column - The column of the rendered cell.
- locale - The user locale.
- originalValue - The original HTML value.
- rowIndex - The index of the rendered row.

Returns

The HTML the WorkSpace uses to display the given cell value.

getRowStyle()

Returns the CSS inline style for the given row. If the method returns NULL the original style is applied.

```
java.lang.String getRowStyle(java.lang.String viewId, fuego.papi.InstanceInfo
instanceInfo, int rowIndex)
```

Example

The following String is an example of a valid return value:

```
"background-color:#FFC6BF;"
```

Parameters

- viewId - The ID of the view assigned to the Work Items Panel.
- instanceInfo - The InstanceInfo object that represents the rendered work item.
- column - The Presentation.Column object that represents the rendered column.
- rowIndex - The index of the rendered row.

Returns

The CSS inline style for the given row.







Oracle BPM WorkSpace Icons Reference

The following reference provides a list of the icons WorkSpace uses, their file names, and descriptions of the message they convey.







WorkSpace icons can be customized following the procedures described in [Customizing WorkSpace Icons](#) on page 13.

 **Note:** Customized icons should respect the message conveyed by the original icon. Read the description field in this table carefully before designing your new icon.








Panel


















| Icon Image | Key | Description |
|---|------------------------|---|
|  | DOCUMENTATION_ICON | Link to the process or activity documentation. |
|  | DOCUMENTATION_ICON_OFF | Indicates the process or activity does not have associated documentation. |
|  | HELP | Link to help. |
|  | REFRESH | Refresh panel content. |
|  | OPENED_PANEL | Indicates the panel is expanded. |
|  | CLOSED_PANEL | Indicates the panel is collapsed. |

Views


| Icon Image | Key | Description |
|---|-------------------|---------------------|
|  | VIEW_ATTACHMENT | Attachments view. |
|  | VIEW_BOOKMARK | Bookmarks view. |
|  | VIEW_CONSULTATION | Consultations view. |
|  | VIEW_FOLDER | Folder view. |
|  | VIEW_HISTORY | History view. |
|  | VIEW_INSTANCE | Instances view. |










Work Items Panel

| Icon Image | Key | Description |
|---|-----------------------|---|
|  | ARROW_DOWN_GRAY | Arrow in Operations drop-down list. |
|  | ATTACHMENT_ICON | Attachment column in Work Items panel. |
|  | EXECUTE_ICON | Execute task. |
|  | FEED_ICON | View RSS feed. |
|  | GRAB | Indicates you can grab a work item. |
|  | NEW_PRESENTATION_ICON | Create a new presentation. |
|  | OPERATIONS | Execute global activity with instance access. |






| Icon Image | Key | Description |
|---|-------------------------------|---|
|  | PRIORITY | Priority column in Work Items panel. |
|  | SEND_TO_ICON | Send the selected work item to the next activity or to a certain participant. |
| ... | THREE_DOTS | Edit view presentation. |
|  | WORKLOAD_ICON | Show process image that contains workload information. |
|  | EXPORT_INSTANCE_VIEW | Export the information displayed in the WorkList table. |
|  | EXPORT_INSTANCE_VIEW_DISABLED | The action to Export the information displayed in the WorkList table is disabled. |
|  | CHART_ICON | Display a chart to show instance data. |
|  | CHART_ICON_DISABLED | The action to display a chart to show the work item data is disabled. |
|  | SELECT_ACTION_ARROW | Select an action to apply to the selected work item. |
|  | SELECT_ACTION_ARROW_DISABLED | The action to select an action to apply to the selected work item is disabled. |
|  | FIRST_PAGE_DISABLED_ICON | The action to show the first page of the WorkList panel is disabled. |
|  | FIRST_PAGE_ICON | Show the first page of the WorkList. |
|  | PREVIOUS_PAGE_DISABLED_ICON | The action to show the previous page of the WorkList panel is disabled. |
|  | PREVIOUS_PAGE_ICON | Show the previous page of the WorkList. |
|  | NEXT_PAGE_DISABLED_ICON | The action to show the next page of the WorkList panel is disabled. |
|  | NEXT_PAGE_ICON | Show the next page of the WorkList. |
|  | LAST_PAGE_DISABLED_ICON | The option to show the last page of the WorkList panel is disabled. |
|  | LAST_PAGE_ICON | Show the last page of the WorkList panel. |

Work Item Status




| Icon Image | Key | Description |
|---|---------|-------------------------------------|
|  | ABORTED | Indicates the work item is aborted. |

| Icon Image | Key | Description |
|---|--------------------|--|
|  | ACTIVITY_COMPLETED | Indicates the activity where the work item is sitting is completed. |
|  | COMPLETED | Indicates the work item has completed the process flow. |
|  | EXCEPTION | Indicates the work item is in an exception flow. |
|  | GRABBED | Indicates the work item is grabbed. |
|  | RUNNING | Indicates the work item is active. By default this key points to a blank image. |
|  | SUSPENDED | Indicates the work item is suspended. |
|  | BOOKMARKED | Indicates the work item is bookmarked. |
|  | UNBOOKMARKED | Indicates the work item is not bookmarked. |
|  | INFO_ICON | Indicates the work item is sitting in a global application with instance access. |


Work Item Priorities

| Icon Image | Key | Description |
|---|---------|---------------------|
|  | HIGH | High priority. |
|  | HIGHEST | Very high priority. |
|  | LOW | Low priority. |
|  | LOWEST | Very low priority. |
|  | NORMAL | Normal priority. |

Work Item Detail Panel









| Icon Image | Key | Description |
|---|-------------------|---|
|  | AUDIT_TRAIL_IMAGE | Shows process image with audit trail information. |
|  | USER | Work item assignment operations. |
|  | USER_DISABLED | Work item assignment operations are disabled. |

Notes




| Icon Image | Key | Description |
|---|----------|--------------------|
|  | NEW_NOTE | Create a new note. |

| Icon Image | Key | Description |
|---|-----------|---|
|  | NOTE | Notes tab icon in Work Item Detail panel. |
|  | NOTE_ICON | Icon in each row of the notes table. |







Attachments




















| Icon Image | Key | Description |
|---|----------------------------|--|
|  | ATTACH | Icon in each row of the attachments table. |
|  | CHECK_IN_EDIT_ATTACH | Check in attachment modifications. |
|  | EDIT_ATTACH | Edit attachment. |
|  | PAGE_ATTACH | Create a new attachment. |
|  | PAGE_ATTACHMENT | Attachments tab icon in Work Item Detail panel. |
|  | PAGE_ATTACH_COLLAB_PAGE | Add a link to an attachment in Collab. |
|  | PAGE_ATTACH_KNOWLEDGE_BASE | Add a link to an attachment in the knowledge base. |
|  | RELEASE_EDIT_ATTACH | Release attachment lock. |

Consultations






| Icon Image | Key | Description |
|---|-------------------|---|
|  | CONSULTATION_ICON | Icon in each row of the consultation table. |
|  | NEW_CONSULTATION | Create a consultation. |
|  | USER_COMMENT | Consultations tab icon in Work Item Detail panel. |

Audit Trail Images













| Icon Image | Key | Description |
|---|---------------|---|
|  | AUDIT_TRAIL | Audit trail tab icon in Work Item Detail panel. |
|  | EXPAND_ALL | Expand all nodes. |
|  | COLLAPSE_ALL | Collapse all nodes. |
|  | AUTOMATIC_ACT | Automatic activity icon used to display audit trail information. |
|  | BEGIN_ACT | Begin activity icon used to display audit trail information. |
|  | COMPENSATE | Compensate activity icon used to display audit trail information. |

| Icon Image | Key | Description |
|---|-----------------------------|---|
|  | CONDITIONAL | Conditional activity icon used to display audit trail information. |
|  | END_ACT | End icon used to display audit trail information. |
|  | GLOBAL_ACT | Global activity icon used to display audit trail information. |
|  | GLOBAL_AUTOMATIC_ACT | Global automatic activity icon used to display audit trail information. |
|  | GLOBAL_CREATION_ACT | Global creation activity icon used to display audit trail information. |
|  | GRAB_ACT | Grab activity icon used to display audit trail information. |
|  | INSTANCE_DASHBOARD_FLAG | Icon used to show the current position of the work item in the process image. |
|  | INTERACTIVE_ACT | Interactive activity icon used to display audit trail information. |
|  | JOIN_ACT | Join activity icon used to display audit trail information. |
|  | MEASUREMENT_START_NODE | Measurement mark start icon used to display audit trail information. |
|  | MEASUREMENT_START_STOP_NODE | Start-stop measurement mark icon used to display audit trail information. |
|  | MEASUREMENT_STOP_NODE | Measurement mark stop icon used to display audit trail information. |
|  | NOTIFICATION_WAIT_ACT | Message Wait event icon used to display audit trail information. |
|  | PROCESS_CREATION_ACT | Process creation activity icon used to display audit trail information. |
|  | PROCESS_NOTIFICATION_ACT | Send Message event icon used to display audit trail information. |
|  | SPLIT_ACT | Split activity icon used to display audit trail information. |
|  | SPLIT_N_ACT | Multiple gateway icon used to display audit trail information. |
|  | SUBFLOW_ACT | Subflow activity icon used to display audit trail information. |
|  | TERMINATION_WAIT_ACT | Termination wait activity icon used to display audit trail information. |


Search

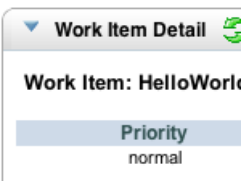
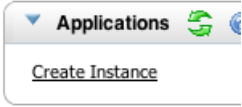
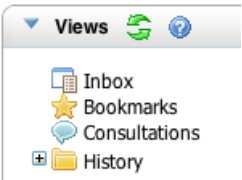
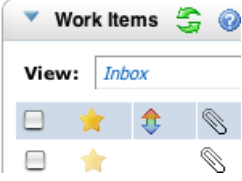

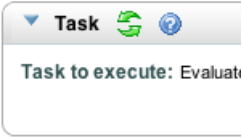
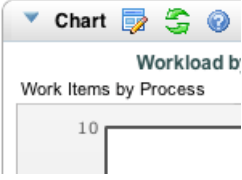
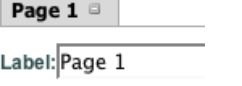
| Icon Image | Key | Description |
|---|---------------|---|
|  | CHANGE_MODE | Switches between the different available formats. |
|  | CLOSED_FILTER | Opens the filter definition. |
|  | OPENED_FILTER | Collapses the filter definition. |
|  | REMOVE_ITEM | Removes a search condition. |
|  | SAVE_VIEW | Save the filter used |

Panel Edition Mode

| Icon Image | Key | Description |
|---|----------------------|---|
|  | ARROW_DOWN_ENABLED | Move panel down. |
|  | ARROW_DOWN_DISABLED | The action to move the panel down is disabled. |
|  | ARROW_LEFT_ENABLED | Move panel to the left. |
|  | ARROW_LEFT_DISABLED | The action to move the panel to the left is disabled. |
|  | ARROW_RIGHT_ENABLED | Move panel to the right. |
|  | ARROW_RIGHT_DISABLED | The action to move panel to the right is disabled. |
|  | ARROW_UP_ENABLED | Move panel up. |
|  | ARROW_UP_DISABLED | The action to move the panel up is disabled. |
|  | BIN | Remove panel. |
|  | TO_EDIT_MODE | Edit panel preferences. |
|  | TO_VIEW_MODE | Stop editing panel preferences. |
|  | REMOVE_PAGE | Remove the page from the layout. |

Add Panel Preview

| Icon Image | Key | Description |
|---|-------------------|--------------------------|
|  | DASHBOARD_PREVIEW | Dashboard panel preview. |

| Icon Image | Key | Description |
|---|------------------------------|------------------------------------|
|  The screenshot shows the 'Work Item Detail' panel. It has a title bar with a dropdown arrow, a refresh icon, and a help icon. The main content area displays 'Work Item: HelloWorld' and a 'Priority' section with the value 'normal'. | INSTANCE_DETAIL_VIEW_PREVIEW | Work Item Detail panel preview. |
|  The screenshot shows the 'Applications' panel. It has a title bar with a dropdown arrow, a refresh icon, and a help icon. The main content area contains a link labeled 'Create Instance'. | MENU_ACTION_PREVIEW | Applications panel preview. |
|  The screenshot shows the 'Views' panel. It has a title bar with a dropdown arrow, a refresh icon, and a help icon. The main content area lists four items: 'Inbox' (with a folder icon), 'Bookmarks' (with a star icon), 'Consultations' (with a speech bubble icon), and 'History' (with a folder icon). | MENU_VIEW_PREVIEW | Views panel preview. |
|  The screenshot shows the 'Work Items' panel. It has a title bar with a dropdown arrow, a refresh icon, and a help icon. The main content area includes a 'View:' dropdown menu set to 'Inbox', and two rows of icons: a document, a star, a double-headed arrow, and a paperclip. | PRESENTATION_VIEW_PREVIEW | Work Items panel preview. |
|  The screenshot shows the 'Application' panel. It has a title bar with a dropdown arrow, a refresh icon, and a help icon. The main content area displays the text 'Current application Crea'. | APPLICATION_DISPLAY_PREVIEW | Application Display panel preview. |
|  The screenshot shows the 'Task' panel. It has a title bar with a dropdown arrow, a refresh icon, and a help icon. The main content area displays the text 'Task to execute: Evaluati'. | EXECUTION_DISPLAY_PREVIEW | Execution Display panel preview. |
|  The screenshot shows the 'Chart' panel. It has a title bar with a dropdown arrow, a pencil icon, a refresh icon, and a help icon. The main content area has a title 'Workload by' and a subtitle 'Work Items by Process'. Below is a bar chart with a single bar labeled '10'. | CHART_PREVIEW | Chart panel preview. |
|  The screenshot shows a page preview. It includes a 'Page 1' header with a dropdown arrow and a 'Label: Page 1' text field. | PAGE_PREVIEW | Page preview. |

Internal Use

These following keys correspond to icons used internally by the product. You must not try to modify them. Doing so may cause WorkSpace to behave abnormally or may have no visible consequences.

- APPLICATION_ICON
- ARROW_RIGHT_GRAY
- CHECK2
- DETAIL_ICON
- DOCUMENTATION_VIEW_PREVIEW
- EXCLAMATION
- EXECUTE_BIG_ICON
- EMPTY
- GLOBAL_INSTANCE_ICON
- PORTLET_ICON
- RECOVER_PRESENTATION_ICON
- SEARCH_PREVIEW
- TIME
- TOOLBAR_ICON
- VIEW_APPLICATION
- VIEW_PREVIEW
- WORKSPACE_PREVIEW
- URL_PANEL_PREVIEW
- ATTACHMENT_PREVIEW
- PAGE

Oracle WorkSpace Labels and Text Messages Reference

The following reference lists the text messages and labels WorkSpace uses.

The default messages of the text messages and labels can be changed following the procedures described in [Customizing Oracle BPM WorkSpace Labels and Text Messages](#) on page 14.

| Message | Key |
|--|------------------------|
| Aborted | ABORTED |
| Abort | ABORT_INST |
| Do you really want to abort the work item? | ABORT_INSTANCE_WARNING |
| About | ABOUT |
| Action | ACTION |
| Activity | ACTIVITY |
| Activity documentation | ACTIVITY_DOCUMENTATION |
| From activity | ACTIVITY_FROM |
| To activity | ACTIVITY_TO |
| Add | ADD |
| Attach new file | ADD_ATTACHMENT |
| Add column | ADD_COLUMN |

| Message | Key |
|--|------------------------------------|
| Add Components | ADD_COMPONENTS |
| Add condition | ADD_CONDITION |
| Add | ADD_LINK |
| Link from Collaboration | ADD_LINK_TO_COLLAB |
| Add Page | ADD_NEW_PAGE |
| Add Panel | ADD_NEW_PORTLET |
| Add Note... | ADD_NOTE |
| All | ALL_APPLICATION_VIEWS |
| All participants in the role | ALL_PARTICIPANTS_IN_ROLE |
| and | AND |
| Default application | APPLICATION |
| Application Community Preferences | APPLICATION_COMMUNITY_PREFS |
| Select the default applications(s) for your community. Hold down the Ctrl key to select multiple values. | APPLICATION_COMMUNITY_PREFS_DETAIL |
| A panel that allows embedding of actions | APPLICATION_DISPLAY_DESCRIPTION |
| Application | APPLICATION_DISPLAY_LABEL |
| %(COMPANYBPM) - %(WORKSPACE) | APPLICATION_TITLE |
| View | APPLICATION_VIEW |
| Apply | APPLY |
| Apply Filter | APPLY_FILTER |
| Ascending | ASCENDING |
| Assign | ASSIGN |
| Assign to Participant | ASSIGN_TO |
| You must select a participant to assign the work item to it | ASSIGN_WITHOUT_PARTICIPANT |
| Attachment | ATTACHMENT |
| Attachments | ATTACHMENTS |
| Attachments (%0) | ATTACHMENTS1 |
| Attachment columns content length | ATTACHMENTS_CONTENT_LENGTH |
| Attachment Operations | ATTACHMENT_ACTIONS |
| Attachment Detail | ATTACHMENT_DETAIL |
| Error on download attachment | ATTACHMENT_DOWNLOAD_ERROR |
| Attachment views | ATTACHMENT_VIEWS |
| Attach File | ATTACH_FILE |
| Associate attachment to a Work Item | ATTACH_FILE_DIALOG_TITLE |

| Message | Key |
|---|-------------------------------|
| Operations | ATTACH_OPERATIONS |
| Error on upload attachment | ATTACH_UPLOAD_ERROR |
| Audit Trail | AUDIT_TRAIL |
| Auto | AUTO |
| Automatic Login | AUTO_LOGIN |
| Available applications | AVAILABLE_APPLICATIONS |
| Available Columns | AVAILABLE_COLUMNS |
| Available dashboards | AVAILABLE_DASHBOARDS |
| Available processes | AVAILABLE_PROCESSES |
| Send Back | BACK_INST |
| Bookmark | BOOKMARK_INST |
| Broadcast Event | BROADCAST_EVENT |
| Use Browser's time zone | BROWSER_TIME_ZONE |
| Build | BUILD |
| Bulk actions | BULK_ACTIONS |
| Cancel | CANCEL |
| Cancel | CANCEL_LINK |
| Cannot load views from PAPI. | CANNOT_LOAD_VIEWS |
| Cannot perform the grab. Not all the work items can be grabbed from the same Grab activities | CANNOT_PERFORM_GRAB |
| Layouts should have at least one page. You can either remove the layout, or add another page so that you can delete this one. | CANNOT_REMOVE_LAST_PAGE |
| Case sensitive | CASE_SENSITIVE |
| Change the time format | CHANGE_TIME_FORMAT |
| Chart | CHART |
| Available Dimensions | CHART_AVAILABLE_DIMENSIONS |
| Column 2D | CHART_COLUMN_2D |
| Column 3D | CHART_COLUMN_3D |
| Chart Data | CHART_DATA |
| Drill down | CHART_DRILL_DOWN |
| by %0 | CHART_DRILL_UP_LINK |
| > | CHART_DRILL_UP_LINK_SEPARATOR |
| All work items | CHART_FILTER_ALL |
| Completed work items | CHART_FILTER_ALL_COMPLETED |
| All work items in interactive activities | CHART_FILTER_ALL_INTERACTIVE |

| Message | Key |
|---|---------------------------------------|
| In-progress work items | CHART_FILTER_ALL_IN_PROGRESS |
| All work items assigned to the current user | CHART_FILTER_ALL_MINE |
| All work items assigned to the current user or unassigned in the current role | CHART_FILTER_ALL_MINE_OR_MY_ROLE |
| Chart Title | CHART_GRAPHIC_LABEL |
| Group by | CHART_GROUP_BY |
| Label | CHART_LABEL |
| Measure | CHART_MEASURE |
| %0 by %1 | CHART_MEASURE_BY_DIMENSION |
| Work Items | CHART_MEASURE_INSTANCES |
| Custom | CHART_MODEL_CUSTOM |
| Workload by Activity | CHART_MODEL_WORKLOAD_ACTIVITY |
| Workload by Assignee | CHART_MODEL_WORKLOAD_ASSIGNEE |
| Workload by Priority | CHART_MODEL_WORKLOAD_PRIORITY |
| Workload by Process | CHART_MODEL_WORKLOAD_PROCESS |
| Workload (with drill down from process to activity) | CHART_MODEL_WORKLOAD_PROCESS_ACTIVITY |
| Workload (with drill down from process to assignee) | CHART_MODEL_WORKLOAD_PROCESS_ASSIGNEE |
| Workload by Status | CHART_MODEL_WORKLOAD_STATUS |
| Chart | CHART_PANEL |
| Chart built from a list of instances provided by a view | CHART_PANEL_DESCRIPTION |
| Pie 2D | CHART_PIE_2D |
| Pie 3D | CHART_PIE_3D |
| Refresh Time (seconds) | CHART_REFRESH_TIME |
| Selected Dimensions | CHART_SELECTED_DIMENSIONS |
| Show work items in a Chart | CHART_TOOLTIP |
| Type | CHART_TYPE |
| Filter | CHART_VIEW |
| All instances | CHART_VIEW_ALL_INSTANCES |
| My instances | CHART_VIEW_MY_INSTANCES |
| My role instances | CHART_VIEW_MY_ROLES_INSTANCES |
| Check in | CHECK_IN_ATTACH |
| Different file, please check this | CHECK_IN_DIFFERENT_FILE |
| Check in edited attachment | CHECK_IN_EDIT_ATTACH |
| Close | CLOSE |

| Message | Key |
|--|---|
| Close search | CLOSE_SEARCH |
| Collaboration Document ID parameter not found. | COLLAB_DOC_ID_PARAM_NOT_FOUND |
| Callback Javascript function name parameter not found. | COLLAB_JS_CALLBACK_NAME_PARAM_NOT_FOUND |
| Collapse all | COLLAPSE_ALL |
| Columns | COLUMNS |
| Column Chooser | COLUMN_CHOOSER |
| Column Format | COLUMN_FORMAT |
| Column Size | COLUMN_SIZE |
| Column size must be a numeric value | COLUMN_SIZE_MUST_BE_NUMERIC |
| Completed | COMPLETED |
| Allow other panels to listen this panel events? | COMPONENT_BROADCASTER_MODE |
| Condition | CONDITION |
| Conditions | CONDITIONS |
| Consult | CONSULT |
| Consultations | CONSULTATIONS |
| Consultations (%0) | CONSULTATIONS1 |
| Consult | CONSULT_INST |
| A page that acts as a container of panels | CONTAINER_PAGE_TYPE_DESCRIPTION |
| Container Page | CONTAINER_PAGE_TYPE_LABEL |
| WorkSpace | CONTAINER_TYPE_DESCRIPTION |
| WorkSpace | CONTAINER_TYPE_LABEL |
| Copy | COPY |
| %(COPYRIGHT) | COPYRIGHT |
| Creation time | CREATION_TIME |
| Creator | CREATOR |
| CSV File | CSV_FILE |
| Hold down the Ctrl key to select multiple values. | CTRL_KEY_MULTISELECT |
| Current | CURRENT |
| Current application | CURRENT_APPLICATION |
| Current dashboard | CURRENT_DASHBOARD |
| Default dashboard | DASHBOARD |
| A dashboard execution panel | DASHBOARD_TYPE_DESCRIPTION |
| Dashboard | DASHBOARD_TYPE_LABEL |

| Message | Key |
|--|---------------------------------|
| Date | DATE |
| Day(s) | DAYS |
| Deadline | DEADLINE |
| Default Applications | DEFAULT_APPLICATIONS_WITH_COLON |
| Default View | DEFAULT_VIEW |
| Delegate | DELEGATE |
| Delegate to Participant | DELEGATE_TO |
| Descending | DESCENDING |
| Description | DESCRIPTION |
| Description field is greater than (%0) | DESCRIPTION_MAX_SIZE |
| Description field is required | DESCRIPTION_REQUIRED |
| Dialog Window | DIALOG |
| Display | DISPLAY |
| Documentation | DOCUMENTATION |
| Download | DOWNLOAD |
| Downloads | DOWNLOADS |
| Download | DOWNLOAD_ATTACH |
| Download Oracle BPM Add-in for Microsoft Office\ u00AE 2007 | DOWNLOAD_RIBBON |
| Editing | EDITING_LAYOUT |
| Edition time | EDITION_TIME |
| Edit attachment | EDIT_ATTACH |
| Edit Mode | EDIT_MODE |
| If you logout in edit mode, unsaved changes will be lost. \n\nAre you sure you want to logout? | EDIT_MODE_LOGOUT_CHANGES |
| Add/Remove Columns | EDIT_PRESENTATION |
| The note field cannot be empty. | EMPTY_CONSULTATION |
| Enable Automatic Login | ENABLE_AUTO_LOGIN |
| Enter new Password | ENTER_NEW_PASSWORD |
| Enter old Password | ENTER_OLD_PASSWORD |
| Escalate | ESCALATE |
| Escalate to Participant | ESCALATE_TO |
| Event | EVENT |
| Exception from\ | EXCEPTION_FROM |
| Execute | EXECUTE |

| Message | Key |
|--|------------------------------------|
| Execution | EXECUTION |
| Execution dialog height | EXECUTION_DIALOG_HEIGHT |
| Maximized execution dialog | EXECUTION_DIALOG_MAXIMIZED |
| Execution dialog width | EXECUTION_DIALOG_WIDTH |
| A panel that allows embedding of tasks | EXECUTION_DISPLAY_DESCRIPTION |
| Task | EXECUTION_DISPLAY_LABEL |
| Execution Type | EXECUTION_TYPE |
| Expand all | EXPAND_ALL |
| Export | EXPORT |
| Work items report | EXPORT_INSTANCES_HEADER |
| Output options | EXPORT_INSTANCE_VIEW |
| Export Default Layout | EXPORT_PREFERENCES |
| %(FEEDS) Application is not running. For more information, contact your administrator. | FEEDS_NOT_STARTED |
| Filename | FILENAME |
| File Size | FILE_SIZE |
| Filter by | FILTER_BY |
| Fixed Presentation | FIXED_PRESENTATION |
| Format | FORMAT |
| Format Pattern | FORMAT_PATTERN |
| Free Format Presentation | FREE_FORM_PRESENTATION |
| Full name | FULL_NAME |
| General | GENERAL |
| Activity ID parameter not found. | GLOBAL_ACTIVITY_ID_PARAM_NOT_FOUND |
| Grab | GRAB |
| Grab activity | GRAB_ACTIVITY |
| Grab | GRAB_INST |
| Height | HEIGHT |
| Help | HELP |
| Collapse | HIDE |
| Hide filters | HIDE_FILTERS |
| Id | ID |
| Iframe not supported | IFRAME_NOT_SUPPORTED |
| Invalid combination of Work Item Scope options. | ILLEGAL_STATUS_SCOPE |
| Image | IMAGE |

| Message | Key |
|---|---------------------------------------|
| Image and Label | IMAGE_AND_LABEL |
| Inside the panel | INLINE_DETAIL |
| Installation Instructions | INSTALLATION_INSTRUCTIONS |
| Work Item | INSTANCE |
| Work Items | INSTANCES |
| The work item is currently assigned to %0. | INSTANCE_ASSIGNED_TO |
| The work item is currently assigned to you. | INSTANCE_ASSIGNED_TO_YOU |
| %0 work item/s | INSTANCE_COUNT |
| The work item detail's view | INSTANCE_DETAIL_VIEW_TYPE_DESCRIPTION |
| Work Item Detail | INSTANCE_DETAIL_VIEW_TYPE_LABEL |
| The work item is not currently assigned to a participant. | INSTANCE_NOT_ASSIGNED |
| %0 Work items | INSTANCE_NUMBER |
| Status | INSTANCE_SCOPE |
| now +/- | INTERVAL_TIME |
| Invalid collab doc ID | INVALID_COLLAB_DOC_ID |
| Correct the following error(s) | INVALID_CONDITIONS |
| Invalid external URL | INVALID_EXTERNAL_URL |
| Invalid format pattern. | INVALID_FORMAT_PATTERN |
| Cannot add component with id '%0', because it either contains invalid characters or it is currently being used by another component | INVALID_ID |
| At least one Work Item Scope must be specified. | INVALID_INSTANCE_SCOPE |
| Select a valid page type | INVALID_PAGE_TYPE |
| Select a valid panel type | INVALID_PORTLET_TYPE |
| In Process | IN_PROCESS |
| Parametric | IS_PARAMETRIC |
| Work Item | ITEM |
| This work item has global applications with instance access. | ITEM_WITH_GLOBALS |
| Document | KB_PAGE_SUBTITLE |
| Select a Knowledge Directory Document | KB_PAGE_TITLE |
| Link from Knowledge Directory | KNOWLEDGE_BASE_ATTACH |
| Label | LABEL |
| Language | LANGUAGE |
| Last Run | LAST_RUN |
| Layout | LAYOUT |

| Message | Key |
|--|------------------------------|
| There is a layout named '%0' already created | LAYOUT_ALREADY_EXISTS |
| The id for the layout cannot be empty | LAYOUT_ID_NOT_NULL |
| The label for the layout cannot be empty | LAYOUT_LABEL_NOT_NULL |
| Layout Pages | LAYOUT_PAGES |
| Layout Properties | LAYOUT_PROPERTIES |
| The layout with id %0, has been successfully saved | LAYOUT_SAVED |
| Disable panels in the list are not set to be listen by others | LISTENER_DISABLE_MESSAGE |
| Listen to | LISTEN_TO |
| Loading... | LOADING |
| Locked by | LOCKED_BY |
| You're logged in as | LOGGED_AS |
| Login | LOGIN |
| Login name | LOGIN_NAME |
| Logout | LOGOUT |
| You have logged out successfully. | LOGOUT_DESCRIPTION |
| E-mail | MAIL |
| Mandatory | MANDATORY |
| Match all conditions | MATCH_ALL_CONDITIONS |
| The number of participants meeting the submitted search criteria exceeds the maximum number of allowed search results\ | MAX_SIZE_PARTICIPANT_SEARCH |
| A menu with the actions | MENU_ACTION_TYPE_DESCRIPTION |
| Applications | MENU_ACTION_TYPE_LABEL |
| Menu Type | MENU_TYPE |
| A menu with the views | MENU_VIEW_TYPE_DESCRIPTION |
| Views | MENU_VIEW_TYPE_LABEL |
| Message(s) | MESSAGES |
| Move down | MOVE_DOWN |
| Move left | MOVE_LEFT |
| Move right | MOVE_RIGHT |
| Move to | MOVE_TO |
| Move | MOVE_TO_PAGE |
| Move up | MOVE_UP |
| Name | NAME |
| New Consultation... | NEW_CONSULTATION |

| Message | Key |
|--|-----------------------------------|
| Enter the text for a new note | NEW_NOTE |
| New Presentation | NEW_PRESENTATION |
| New view | NEW_VIEW |
| Next | NEXT |
| No | NO |
| None | NONE_DASHBOARD |
| Note | NOTE |
| Notes | NOTES |
| Notes (%0) | NOTES1 |
| Enter some content for the note, you cannot add one without it. | NOTE_WITHOUT_CONTENT |
| Note | NOTE_WITH_COLON |
| Notify me by e-mail when new work items arrives | NOTIFY_NEW_INSTANCES |
| Cannot process next task because work item '%0' is still in the automatic activity '%1' after waiting '%2' milliseconds. | NOT_ABLE_TO_PROCESS_NEXT_INSTANCE |
| Request not gatewayed. Add this servlet to the gateway space. | NOT_GATEWAYED_REQUEST_ERROR |
| Not valid integer. | NOT_VALID_INTEGER |
| There are no valid and possible outgoing transitions from this activity | NOT_VALID_TRANSITION |
| No documentation for this activity | NO_ACTIVITY_DOCUMENTATION |
| No applications available. | NO_APPLICATIONS_AVAILABLE |
| Selected application not found, please edit the panel and select a different application | NO_AVAILABLE_APPLICATION |
| No dashboard were found for the application selected, please edit the panel and select a different application. | NO_AVAILABLE_DASHBOARD |
| No data to display | NO_DATA_TO_DISPLAY |
| No work item has been selected | NO_INSTANCE_SELECTED |
| You must select a Document for link | NO_LINK_TO_ADD |
| None of the participants that match the search criteria have been assigned to the role for this activity. | NO_PARTICIPANT_MATCHES_ROLE |
| You must select a participant to consult. | NO_PARTICIPANT_SELECTED |
| No processes were found | NO_PROCESSES_FOUND |
| No documentation for this process | NO_PROCESS_DOCUMENTATION |
| No application has been selected | NO_SELECTED_APPLICATION |

| Message | Key |
|--|-------------------------|
| No dashboard has been selected | NO_SELECTED_DASHBOARD |
| No view has been selected | NO_SELECTED_VIEW |
| You must select a file to upload | NO_UPLOAD_FILE_SELECTED |
| No views were found | NO_VISIBLE_VIEWS |
| Specify a valid value for '%0' | NULL_VALUE_FOR |
| Number of work items | NUMBER_OF_INSTANCES |
| Page%0 | NUMERED_PAGE |
| OK | OK |
| Select action | OPERATIONS |
| Optional Tasks | OPTIONAL_TASKS |
| Orientation | ORIENTATION |
| Landscape | ORIENTATION_LANDSCAPE |
| Portrait | ORIENTATION_PORTRAIT |
| Overview | OVERVIEW |
| Page | PAGE |
| Page Description | PAGE_DESCRIPTION |
| Panels cannot be added to this page, because it is not editable. | PAGE_NOT_EDITABLE |
| Page size | PAGE_SIZE |
| A3 | PAGE_SIZE_A3 |
| A4 | PAGE_SIZE_A4 |
| Assigned to | PARTICIPANT |
| Assigned to | PARTICIPANT_SCOPE |
| Participant | PARTICIPANT_WITH_COLON |
| Password | PASSWORD |
| \ %0 | PATH_VIEW_SEPARATOR |
| PDF Document | PDF_DOCUMENT |
| Peer assignment | PEER_ASSIGNMENT |
| Peer assignment to Participant | PEER_ASSIGNMENT_TO |
| Platform | PLATFORM |
| Popup Window | POPUP |
| Panel Description | PORTLET_DESCRIPTION |
| In a separated Work Item Detail Panel | PORTLET_DETAIL |
| Presentation | PRESENTATION |
| Presentation Columns | PRESENTATION_COLUMNS |

| Message | Key |
|---|--|
| Presentation Id | PRESENTATION_ID |
| The work items view formatted as the associated presentation | PRESENTATION_VIEW_TYPE_DESCRIPTION |
| Work Items | PRESENTATION_VIEW_TYPE_LABEL |
| Preview Image | PREVIEW_IMAGE |
| Principal not found | PRINCIPAL_NOT_FOUND |
| Priority | PRIORITY |
| %0 priority | PRIORITY1 |
| Process | PROCESS |
| Processes | PROCESSES |
| Process documentation | PROCESS_DOCUMENTATION |
| Process Map | PROCESS_IMAGE |
| Reassign | REASSIGN |
| Reassign to Participant | REASSIGN_TO |
| Reassign to me | REASSIGN_TO_ME |
| Received | RECEIVED |
| Refresh | REFRESH |
| Related Resources | RELATED_RESOURCES |
| Release edit attachment | RELEASE_EDIT_ATTACH |
| Remarks | REMARKS |
| Remarks field is greater than (%0) | REMARKS_MAX_SIZE |
| Remove | REMOVE |
| Remove column | REMOVE_COLUMN |
| Remove Layout | REMOVE_LAYOUT |
| Remove page | REMOVE_PAGE |
| Repeatable | REPEATABLE |
| Responsible | RESPONSIBLE |
| Reset Filter | RESTORE_FILTER |
| Resume | RESUME_INST |
| Re-Login | RE_LOGIN |
| Re-type Password | RE_TYPE_PASSWORD |
| %(COMPANYBPM) %(OFFICE_RIBBON) | RIBBON_APPLICATION_TITLE |
| <p>To install and use the add-in\ | RIBBON_INSTALLATION_INSTRUCTIONS_DETAILS |
| <p>This is the download page for the Business Process add-in for Office 2007.</p><p>This add-in allows you to create Business Process work items with a Microsoft Office document | RIBBON_OVERVIEW_DETAILS |

| Message | Key |
|---|------------------------------------|
| such as a Word file or Excel spreadsheet. The add-in will appear as a ribbon tab in some of your Microsoft Office applications.</p> | |
| Business Process Add-in for Office <a href\="">on-line help. | RIBBON_RELATED_RESOURCES_DETAILS |
| Supported Operating Systems\ | RIBBON_SYSTEM_REQUIREMENTS_DETAILS |
| Roles | ROLES |
| Save | SAVE |
| Create Layout | SAVE_LAYOUT |
| Scrolling | SCROLLING |
| Search | SEARCH |
| Search Work Items | SEARCH_TYPE_DESCRIPTION |
| Search participant | SEARCH_USER |
| Search - %0 | SEARCH_WITH_VIEW |
| Selected work item | SELECTED_INSTANCE |
| Select the Locale for upload | SELECTED_LOCALE_UPLOAD |
| Selected processes | SELECTED_PROCESSES |
| At least one process must be selected | SELECT_A_PROCESS |
| Select a Collaboration Document | SELECT_COLLAB_DOC |
| Select a Collaboration Project | SELECT_COLLAB_PROJECT |
| Select default attachment view | SELECT_DEFAULT_ATTACHMENT_VIEW |
| Select file | SELECT_FILE |
| Assign to me | SELECT_INST |
| Select the Document from Knowledge Directory | SELECT_KB_DOC |
| There are no default pages that can be used to create a new layout. Select the layout that you want to update | SELECT_LAYOUT_TO_UPDATE |
| Select page to move | SELECT_PAGE_TO_MOVE |
| Select a Participant | SELECT_PARTICIPANT |
| Select a Collaboration Project and Folder | SELECT_PROJECT_AND_DOC |
| Select at least one role to be assigned to the layout | SELECT_ROLES_FOR_LAYOUT |
| Send | SEND |
| Send To | SENDTO_INST |
| Send | SEND_INST |
| Send To | SEND_TO |
| Send to type | SEND_TO_TYPE |

| Message | Key |
|---|----------------------------|
| Your login session has expired | SESSION_EXPIRED |
| Settings | SETTINGS |
| Expand | SHOW |
| Show Work Item Detail | SHOW_DETAIL |
| Show filters | SHOW_FILTERS |
| Show hidden views | SHOW_HIDDEN_VIEWS |
| View | SHOW_VIEW |
| Size | SIZE |
| Sorted by | SORTED_BY |
| Sorting | SORTING |
| Status | STATUS |
| Storage Type | STORAGE_TYPE |
| Suspend | SUSPEND_INST |
| The default view cannot be a Folder View or Applications View. | SYSTEM_DEFAULT_NOT_VALID |
| System Requirements | SYSTEM_REQUIREMENTS |
| Page size | TABLE_ROW_COUNT |
| Task | TASK |
| Task to execute | TASK_TO_EXECUTE |
| Task %0 executed | TASK_XX_EXECUTED |
| Time Zone | TIME_ZONE |
| Toggle work items selection | TOGGLE_INSTANCES_SELECTION |
| Change to current participant mode | TO_CURRENT_USER_MODE |
| On | TO_EDIT_MODE |
| Off | TO_NORMAL_MODE |
| Change to select participant mode | TO_SELECT_USER_MODE |
| Type | TYPE |
| UID | UID |
| Unassigned | UNASSIGNED |
| Remove assignment | UNASSIGN_INST |
| Remove bookmark | UNBOOKMARK_INST |
| Unexpected Error | UNEXPECTED_ERROR |
| There was an unexpected error. Log in again and contact your system administrator if the problem persists. You can click on the detail button for the technical cause of the error. | UNEXPECTED_ERROR_MSG |

| Message | Key |
|--|--------------------------|
| Ungrab | UNGRAB_INST |
| Unassign | UNSELECT_INST |
| Update an already existent layout | UPDATE_A_LAYOUT |
| Url | URL_LABEL |
| URL Panel | URL_PANEL |
| A panel that renders an URL that the user selects. | URL_PANEL_DESCRIPTION |
| User | USER |
| Username | USERNAME |
| User Layout | USER_LAYOUT |
| Remote scripting for %(FUEGO_OBJECT) presentations | USE_FO_SCRIPTING |
| Show applications with instance access | USE_INSTANCE_ACCESS |
| Use System Default | USE_SYSTEM_DEFAULT |
| Version | VERSION |
| Views | VIEWS |
| Are you sure you want to delete the view? | VIEW_DELETE_CONFIRMATION |
| Delete View | VIEW_DELETE_DIALOG_TITLE |
| Description | VIEW_DESCRIPTION |
| Save View | VIEW_DIALOG_TITLE |
| Edit view | VIEW_EDIT |
| View Feed | VIEW_FEED |
| View full attachment's detail | VIEW_FULL_ATTACH_DETAIL |
| View full note's content | VIEW_FULL_NOTE |
| You cannot delete this view because it has children views. Try again after you have deleted all of them. | VIEW_HAS_CHILDREN_ERROR |
| Hidden? | VIEW_HIDDEN |
| The view selected as default view was not found. | VIEW_NOT_FOUND |
| Enter values for Parametric conditions. | VIEW_PARAMETERS |
| Parent view | VIEW_PARENT |
| Save As View | VIEW_SAVE_AS |
| Save View As | VIEW_SAVE_AS_TITLE |
| Are you sure you want to save the view? | VIEW_SAVE_CONFIRMATION |
| The work items view | VIEW_TYPE_DESCRIPTION |
| Work Items | VIEW_TYPE_LABEL |

| Message | Key |
|---|---------------------------------|
| Visible Views | VISIBLE_VIEWS |
| %(COMPANYBPM) - %(WORKSPACE) | WEBAPP_TITLE |
| Width | WIDTH |
| Work List Community Preferences | WORKLIST_COMMUNITY_PREFS |
| Select a default view for your community. | WORKLIST_COMMUNITY_PREFS_DETAIL |
| BPM Workspace | WORKSPACE |
| %(WORKSPACE) failed on Startup. | WORKSPACE_STARTUP_FAILED |
| Passwords must mach | WRONG_PASSWORDS |
| In '%0' the second value must be higher than the first one. | WRONG_VALUES_FOR |
| Yes | YES |