

ENSIM PRO - LINUX



Ensim Pro 10.1.0 for Linux Customization Guide



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CORPORATE HEADQUARTERS

ENSIM CORPORATION
1366 Borregas Avenue
Sunnyvale, California 94089
(408) 745-3300

www.ensim.com

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About this guide

Introduction

This guide provides instructions for customizing Ensim® Pro 10.1.0 for Linux®. Ensim Pro is a robust control panel solution for small and large professional hosting providers that runs on a Linux server running any of the following operating systems—CentOS 4.1 (Community Enterprise Operating System), CentOS 4.2, CentOS 4.3, RHEL 4 (Red Hat® Enterprise Linux ES Release 4), FC 4 (Fedora™ Core 4), and FC 2.

For simplicity, Ensim Pro 10.1.0 for Linux is referred to as “Ensim Pro” throughout the document.

Intended audience and required skills

This guide is intended for those who want to customize the look and feel of Ensim Pro. To use this document, you need to be proficient in HTML, CSS, XSL, and XML. You also need to be familiar with the Linux platform.

Document conventions

Throughout this guide, specific fonts are used to identify user input, computer code, and user interface elements. The following table lists conventions used in this guide.

Table 1. Document conventions

Convention	How it is used
Cross-references with page number links	Used to provide quick access to information in the document. The page number is a hyperlink. <i>Example:</i> See Legal and copyright notice on page 2.
Bold text, serif font	Used for information you type as well as for file names, path names, and CD names. <i>Example:</i> On the command line, type continue .
Italic text	Used for column names, field names, window names, and book titles. <i>Example:</i> The <i>Select Installation Folder</i> window is displayed.

Table 1. Document conventions

Convention	How it is used
<i>Bold, italic text enclosed in angle brackets</i>	Used for variables you replace with the appropriate information. <i>Example:</i> Type <code><server_name></code> where <code><server_name></code> is the IP address or host name of your server.
Bold text, sans serif font	Used for items you click or press, such as buttons, menus, and command keys. <i>Example:</i> Click Start > Settings > Control Panel.
Non-proportional font	Used for system messages, screen text, and code examples. <i>Example:</i> The following message is displayed: <code>The server has been added.</code>

Note: In addition, key information is sometimes displayed using special headings and formats, such as this one, to make it stand out from regular text.

Support and feedback

For Ensim online support or feedback, use the following links:

- <http://support.ensim.com> to create an Ensim Support account and access other documentation.
- <https://onlinesupport.ensim.com> to log in to Ensim Support using an existing account
- http://onlinesupport.ensim.com/kb_search.asp?product=lwp to search the knowledge base
- <http://www.ensim.com/about/feedback.asp> to provide feedback to Ensim

Note: All customers receive passwords that allow access to the Ensim Support site. If you do not have a password, contact your organization's liaison to Ensim.

Overview of customizations

Introduction

This section introduces the concepts and terminologies used to explain customization.

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About resource customization

A resource is a customizable unit that can be broadly classified into two types—dynamic and static. A dynamic resource is a resource that resolves to application code and executes dynamically on the server. For example, when you log into Ensim Pro control panel and click on the option **List Sites**, the action executes application code to obtain the required result.

A static resource is a resource that resolves to a static file on the server, for example, an image displayed in Ensim Pro is a static resource as it resolves to a static image file on the server. *This document explains static resource customization.*

Identifying resources

The customizations described in this document refer to static resource customizations. To easily distinguish a static resource from a dynamic resource, look for the keyword **/static/** in the Web URL of the page. For example, the URL of an image reads as follows: **https://<server_name>/static/images/sites.gif**. Every static resource in Ensim Pro is identified by the keyword **/static/** in the Web URL.

Types of resources

The static resources of Ensim Pro are organized according to the type of the resource to which they belong. There are 5 types of static resources in Ensim Pro.

The static resources are:

- **XML files** (*Short name: xml*). XML files contain information that specify the position of links on the left and top navigation bars, the dashboard, the shortcuts, and the top information panel at different administrative levels.
- **XSL stylesheets** (*Short name: xsl*). XSL stylesheets are files that define the layouts of the top information panel, the left and top navigation bars, the shortcuts, and the dashboard at different administrative levels.
- **JavaScript files** (*Short name: js*). JavaScript files are files that perform client-side parameter validation and render the contents of flip lists.
- **Image files** (*Short name: images*). Image files are icons of different types, such as *.gif*, *.jpeg*, *.png*, displayed in the control panel.
- **HTML stylesheets** (*Short name: css*). HTML stylesheets are files that define the visual appearance of the control panel.

The following illustration shows the file structure of the customizable resources.

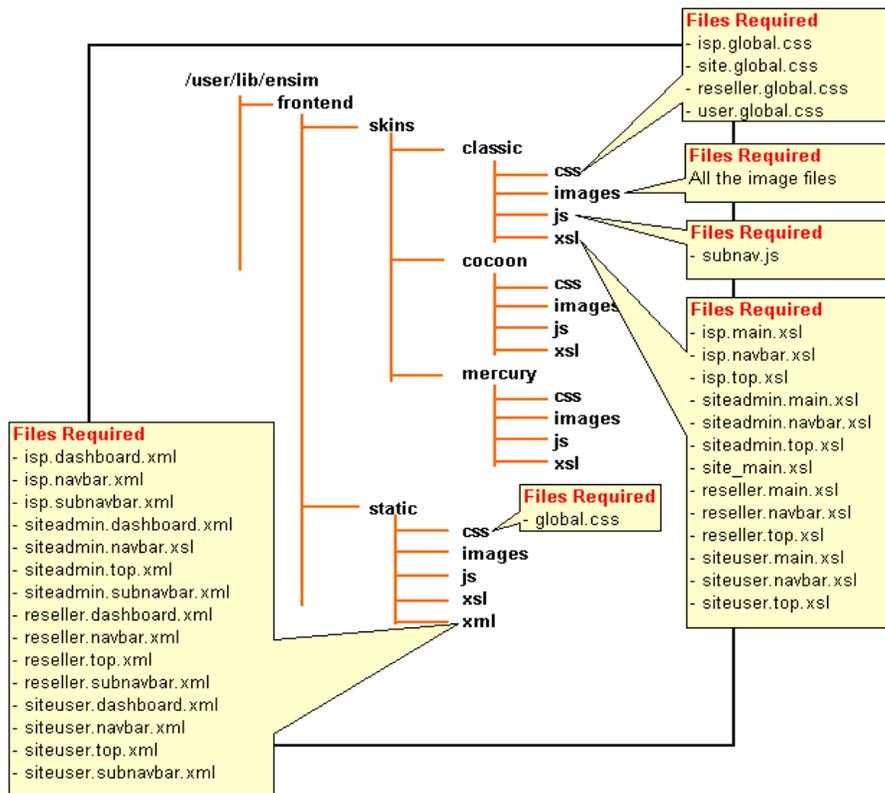


Figure 1. File structure of resources

Ease of customization

Earlier versions of Ensim Pro required technical proficiency in python and familiarity with the application logic to perform customizations. Ensim Pro has now revamped its application framework to segregate the presentation layer from the application logic. This design philosophy brings a whole new array of possibilities to Ensim Pro customization besides making it more accessible and straightforward. You can now customize any section of the control panel with minimal effort.



The skins use CSS and XSL style sheets to transform XML content and generate an HTML Web page. To customize the control panel, you need to have a working knowledge of HTML, CSS, XSL, XML, and JavaScript. Whenever you customize, you simply make a custom copy of the file you want to customize using the customization tool **resourceop**, then make the changes to your custom file. This ensures that you can reload the default settings, at any time, if necessary.

Resource stores

Resource stores classify customizable resources according to the nature and scope of customization.

Why do we need resource stores

Ensim Pro offers a suite of 3 skins—*Cocoon*, *Mercury*, and *Classic*. In addition, Server Administrators, Reseller Administrators, and Site Administrators can choose to create or customize their control panel and extend this suite. Many of the resources used by skins are common across all skins and do not need to be customized for each skin. For the sake of efficiency, these resources are not duplicated for each skin. For instance, the JavaScript file **validate.js** performs client-side parameter validation and is common across all skins because it does not affect the visual configuration of a skin.

On the other hand, there are resources that are different for each skin, because they affect its visual configuration. These resources define the look and feel of that particular skin and are therefore skin-specific. For example, the HTML stylesheet **isp.global.css**, which defines the look and feel of the Server Administrator control panel is a skin-specific file.

To delineate these resources according to the scope and impact of their customizations, Ensim Pro introduces the concept of **resource stores**.

Types of resource stores

Ensim Pro provides the following resource stores:

- **Default store.** This store contains resources that are used in common by all the skins on Ensim Pro. Typically, these resources are XML files and JavaScript files and do not affect the visual appearance of the control panel. Ensim Pro has only one Default store located at `/usr/lib/ensim/frontend/static/`.
- **Skin stores.** This store contains various types of resources that combine to define the look and feel of the control panel. The resources for each skin are stored in independent skin stores since the look and feel of the control panel varies according to the skin. The customizations made to the resources in this store are visible to all users.

For example, the Cocoon skin stores its resources in its own skin store *Cocoon*, while the Mercury skin stores its resources in its skin store *Mercury*. The Skin store is located at `/usr/lib/ensim/frontend/skins/<skin_name>/`.

Cocoon: `/usr/lib/ensim/frontend/skins/cocoon/`

Mercury: `/usr/lib/ensim/frontend/skins/mercury/`

Classic: `/usr/lib/ensim/frontend/skins/classic/`

- **User stores.** Ensim Pro enables Server Administrators, Reseller Administrators, and Site Administrators to customize the control panel according to their preferences. For more information, see [About branding control panels](#) on page 11.



Whenever a Server Administrator, Reseller, or Site Administrator customizes a resource, that resource is placed in the corresponding user store. For example, customizations made by a Server Administrator are placed in the Server Administrator store. The customizations made to resources in a user store are visible only to that particular user. Ensim Pro supports the following types of User stores:

- **Server Administrator store.** This store contains resources that are customized by the Server Administrator.

Path: `/etc/appliance/customization/stores/isp/`

- **Reseller Administrator store.** This store contains resources that are customized by Reseller Administrators. Resellers can have their own independent customized stores.

Path: `/etc/appliance/customization/stores/reseller/<reseller_name>`

- **Site Administrator store.** This store contains resources that are customized by Site Administrators. Site Administrators can have their own independent customized stores.

Path: `/etc/appliance/customization/stores/site/<site_name>`

Note: User Administrators do not have their own customized store. They inherit the store attributes of their Site Administrator. Therefore, the resource store of a User Administrator is `/etc/appliance/customization/stores/site/<site_name>`.

Selecting a resource store for customization

When you customize a resource, you need to select the store whose resources you want to customize. Once you customize, you must place your customized resources in that store.

- **Default store.** This store contains the required resources in Ensim Pro. Do not customize resources in this store.
- **Skin store.** This store contains resources specific to a skin that are visible to all users. Use this store to perform customizations that are common and need to be visible across administrative levels.
- **User store.** This store contains resources specific to the user customizing the control panel. Use this store to perform customizations that are specific or local to a particular administrative level.

Displaying resources in Ensim Pro

When Ensim Pro displays a resource (such as a .gif, .css, .js, or .xsl) on the control panel, it searches for the resource in the following stores in the order given below:

- User store
- Skin store
- Default store

The resource to be displayed is selected from the first store that contains that particular resource. If there is no customized resource available, then the resource is selected from the Default store. If a resource has been customized, then it is fetched from the User store (of the user logged in) or the Skin store. If the resource does not exist in any store, the error `Page Not Found` is displayed.

About branding control panels

You can customize the look and feel of Ensim Pro to suit your preferences or extend your company's branding to convey brand association and unity. This look and feel includes micro-level customizations on an existing skin such as logo, banner, colors, graphics, menu configuration, and styles or using a completely new visual style in the form of a new skin.

What you can change: Banners and logos, colors and graphics, padding, spacing, and font sizing, display and position of menu options on the left navigation bar, top navigation bar, shortcuts, and content (service providers can add content to the Site Administrator control panel).

What you cannot change: The title of the page displayed in the browser window.

Your customers cannot change the branding of their top-level control panels. However, the system is designed so that they can override your settings and customize the control panels used by their customers (their Reseller Administrators, Site Administrators and User Administrators).

Your branding preferences are automatically applied to reseller, site, and user control panels only if resellers and Site Administrators have not added their own branding preferences. This preserves their ability to brand their customers' control panels.

When you add or change your branding preferences, those preferences are applied as follows:

Table 2. Application of branding preferences

Control panel	How preferences are applied
Resellers and sites you own	Your changes are always applied immediately.
Resellers and sites owned by your resellers	Your changes are applied only if the reseller has not customized the reseller or site control panels.
Users added by Site Administrators	Changes are applied only if the Site Administrator or reseller has not customized the user control panel.

Guidelines for customization

Ensure that you observe these guidelines when you customize the control panel.

- First, identify the file path that refers to the resource (CSS, XSL, JS, XML, or images) you want to customize. If it includes the keyword `/static/` after the server name, you can customize it. For example, if you want to customize an image, right-click on the image, select **Properties** and observe the URL, it will read: `https://<server_name>/static/images/sites.gif`. All customizable resources begin with `/static/`. Next, identify the relative path, that is the path that follows the keyword `/static/`. For example, the relative path in the above example is `images/sites.gif`.
- Copy the original resource to a new folder and then modify the resource. In case of image files, you can directly copy the files to the new location.
- When you customize images, ensure that the new image is saved using the name of the file you want to replace. Also, make sure that you preserve the dimensions of the original image for better results.



- When you customize an XML document, run the **xmllint** command as follows to ensure there are no parsing errors due to mismatched tags.

```
xmllint --noout /etc/appliance/admin/skins/<skin_name>/xsl/isp.navbar.xsl
```

If there are parsing errors, the command displays the errors; if there are no errors, no output is displayed.

Important: Ensim Pro does not revert to the default XSL or XML files if the customized files cannot be parsed.

User interface terminology

The following section uses graphics to convey the terminology used to identify the different customizable components of the Ensim Pro interface. The style sheets and other customizable resources use the terminology in their file names and class names. Acquainting yourself with the terminology helps in easy identification of the files and classes that you need to modify.

- **Top bar.** Identifies the top display panel
- **Dashboard.** Identifies the shortcuts section
- **Navbar.** Identifies the left navigation bar
- **Subnav bar.** Identifies the top navigation bar
- **Flip list.** Identifies the lists that can be sorted into ascending or descending order
- **Form.** Identifies the forms that require inputs



The following figures illustrate the terminology used to identify the customizable components of Ensim Pro.

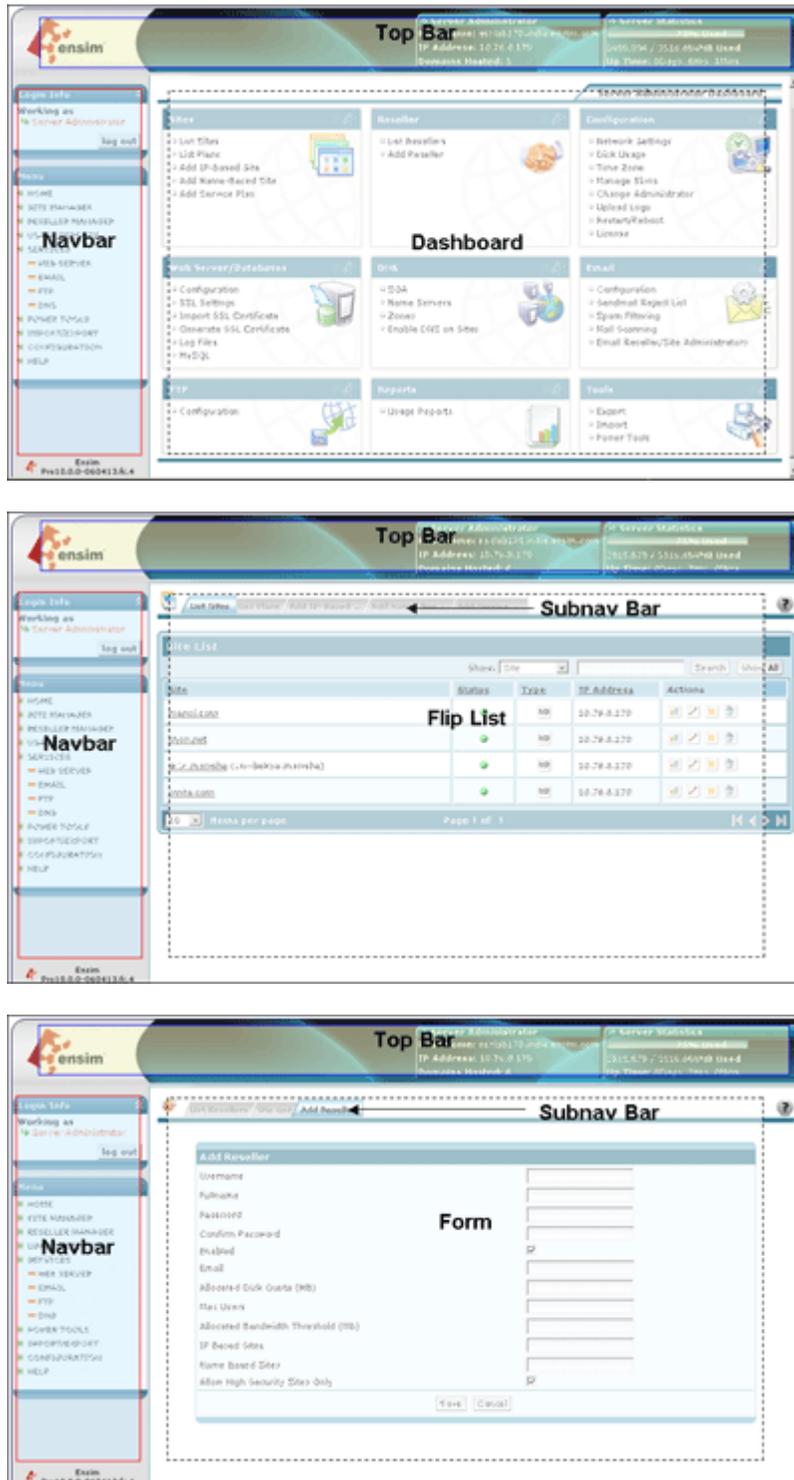


Figure 2. Terminology

About the resource customization tool

Introduction

This section describes the command line tool **resourceop** used to customize resources.

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About the resource customization tool

The resource customization tool **resourceop** is a command line tool used for customizing resources. The tool communicates with the Ensim Pro server on port 8080 using the HTTP protocol (HTTPS is not supported yet). Using the tool, you can view the list of customizable resources, customize them, and revert customized resources to their default configuration.

Command line options

The following table lists the options you can use with the tool for various operations.

Table 3. Tool options

Option	Description
Login information	
-r --role= <i><role></i>	The role of the administrator performing the operation. The supported roles are: <ul style="list-style-type: none"> • Server Administrator: <i><role></i> = isp • Reseller Administrator: <i><role></i> = reseller • Site Administrator: <i><role></i> = siteadmin
-u --user= <i><username></i>	The user name of the administrator. For Site Administrators <i><username></i> = <i><username></i> @ <i><domainname></i>



Table 3. Tool options

Option	Description
-p --password=<password>	The password in clear text. If not specified, a blank password is used.
-H --host=<host_name>	The Ensim Pro server to which you want resourceop to connect. If not specified, the local server is used.
-P --port=<port>	The port on which resourceop communicates with the Ensim Pro server. If not specified, port 8080 is used.
Other tool options	
-U --uri=<url>	<p>The file path of the local resource you want to use for customizing a resource. This option can be specified in any of the following standard URI (Uniform Resource Identifier) format:</p> <p>/tmp/logo.gif file:///tmp/logo.gif logo.gif ftp://myuser:password@mysite.com/logo.gif http://myserver.com/example/graphic.gif</p> <p>Read the uri(7) man page for more details.</p> <p>Operation: This option is used only when the operation specified is customize.</p>
-L --url=<url>	The relative path of the resource you want to customize. The path should begin with the keyword /static/ .
-O --output=<file_name>	<p>The name of the output file where you want to save the resource you download (specified with the -L option) for customization.</p> <p>Operation: This option is used when the operation specified is download.</p>
-s --skin=<skin_name>	The name of the skin from which you want to use resources.
-f --conf=<conf_file>	<p>The file in which you save common login parameters such as user, role, password, host, and port, for reuse.</p> <p>The configuration file must be a valid python file, and must contain initializers in the following format:</p> <p>NAME="value"</p> <p>where:</p> <p>NAME is one of the following: ROLE / USER / PASSWORD / HOST / PORT</p> <p>value is the actual value for the above fields</p>

**Table 3. Tool options**

Option	Description
-v --verbose	Displays debugging information
-h --help	Displays this help message

Resource operations

The tool supports the following operations.

- [Operation 'list'](#) on page 16
- [Operation 'download'](#) on page 16
- [Operation 'customize'](#) on page 17
- [Operation 'revert'](#) on page 17

Operation 'list'

The list operation is used to view the resources available for customization along with information on the store to which they belong. If no particular resource is specified (using the **-L | --url** option), all the available resources are listed, otherwise, only information about the specified resource is displayed. If you do not specify the skin (using the **-s | --skin** option) for which you want to view resources, only resources from the Default and Common stores are listed; otherwise, the list also includes resources available within the specified skin store.

Operation 'download'

The download operation is used to download the resource specified by the **-L** option into the output file specified by the **-O** option.

When you want to customize a resource, you first make a local copy of the original resource from one of the stores. The download operation is used to download the resource (you want to customize) into a local file. To download, specify the name of the resource using the **-L/--url** option. Also, you must specify a local file (where you want to download the resource) using the **-O/--output** option.

As in the list operation, if you specify a skin using the **-s** option, then the resource is downloaded from that particular skin store; if you do not specify a skin, the resource is downloaded from the Default/Common stores, if they exist.



Operation 'customize'

The customize operation uploads the resource specified with the **-U** option to the control panel. After you upload, this resource is available and can be accessed through the path or URL specified with the **-L** option. The uploaded resource is placed in the Customized Store. The resource you want to upload can point to a local file, or any remote location, the specification of which must meet the standard URI syntax.

You must ensure that the type of the resource being uploaded exactly matches the type of the resource that is being replaced (customized). For example, if you customize (**-L | --url option**) an image resource of type `.gif`, the resource you upload (**-U | --uri option**) must also be an image resource of type `.gif`, preferably with the same dimensions (height and width). Similarly, if you customize an XML file, the file you upload must also be an XML file, and furthermore, it must also be an XML file that is of the same format as the XML file being customized. The best way to customize non-binary resources such as XML files, is to first download the resource to a local file, make the necessary modifications, and then use the customize operation to upload the resource.

Note: Since Ensim Pro supports resource customization on a per-skin basis, you must specify a skin using the **-s | --skin** option.

Operation 'revert'

The revert operation is used to revert customized resources to their default settings.

You must specify the resource for which you want to undo customization (using the **-L | --url** option) and the skin for which the resource was customized (using the **-s | --skin** option).

Setting up a configuration file

A configuration file allows you to save common information in a file for convenient reuse. Certain information such as user credentials, server name, and port number must be provided every time you use the tool. Instead of manually providing the information each time, you can save the information in a configuration file called `.resourceop` that you can subsequently use with the **-f | --conf** tool option. This configuration file must be a valid python file. You can specify a custom configuration file with the option, otherwise, if a `.resourceop` file exists in your home directory the tool automatically loads the configuration values.

A typical `.resourceop` file uses the following format:

```
HOST="localhost"
PORT="8080"
ROLE="isp"
USER="admin"
PASSWORD="example"
/**It is recommended that you do not mention your password inside the .resourceop
file for security reasons.**/
```

Customizing a skin

Introduction

This section describes how to create a skin and customize its resources as a Server Administrator using the *Skin* store. Since the customizations use the *Skin* store, they will be visible to all administrative levels. You may similarly experiment with other stores, such as the User store, depending on your customization requirements. Before you proceed with the customizations, review [Chapter 1, Overview of customizations](#) on page 7 and [Chapter 2, About the resource customization tool](#) on page 12.

Note: To perform any operation, you must log in to the Ensim Pro server as a root user.

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Creating a skin

The easiest way to create a new skin is to copy the skin directory of an available skin to a new directory as described in the following procedure.

▼ To create a skin:

- 1 Log in to the Ensim Pro server as the root user.
- 2 Change to the directory `/usr/lib/ensim/frontend/skins/`.

```
cd /usr/lib/ensim/frontend/skins/
```
- 3 Copy the contents of an existing skin directory recursively into a new directory. Further, preserve the existing file permissions (using the `-p` option).

```
cp -Rp <old_skin_dir>/ <new_skin_dir>
```

For example, to copy the existing skin directory *cocoon* to a new directory *myskin*, type the following command:

```
cp -Rp cocoon/ myskin
```

A new directory, *myskin*, is created under the directory `/usr/lib/ensim/frontend/skins/`, hence, *myskin* is recognized as a new skin by the Ensim Pro control panel. The control panel displays the name of the skin directory as a new skin option in the control panel. To apply the new skin to your control panel, log in to the Server Administrator control panel, and choose *myskin*. Notice that the new skin assumes the look and feel of the skin you copied. Customize the skin components as described in the [customization instructions](#) on page 19 to provide a distinct look and feel for the new skin.

Customizing a skin

This section explains how to customize a skin.

Note: Some of the images used to illustrate the customizations exceed standard dimensions. These images are displayed in landscape mode in [Appendix A List of referenced images](#) on page 26.

You can customize a skin by:

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Adding links to the left navigation bar

The following procedure explains how to add a link, such as **Contact Us**, next to the **Services** option on the left navigation bar of the Server Administrator control panel.

▼ To add a custom link to the left navigation bar:

- 1 Log in to the Ensim Pro server as the root user.
- 2 Verify that the resource `/static/xml/isp.navbar.xml` exists.

```
resourceop <login_options> -L /static/xml/isp.navbar.xml -s <skin_name> list
```
- 3 Download the resource.

```
resourceop <login_options> -L /static/xml/isp.navbar.xml -s <skin_name> -O /tmp/isp.navbar.xml download
```
- 4 Make the required changes to the file `/tmp/isp.navbar.xml`. Search for the `<item>` nodes, add nodes according to your requirement, and save your changes. For example, to insert a link **Contact Us**, next to the link **Services**, insert the **Contact Us** XML snippet as shown in the [navigation bar links illustration](#) on page 26.
- 5 Upload the resource to the Ensim Pro server.

```
resourceop <login_options> -L /static/xml/isp.navbar.xml -s <skin_name> -U /tmp/isp.navbar.xml customize
```



The resource is customized. To verify the result, log in to the Server Administrator control panel and refresh the Web page.

If you want to revert your changes, type the following command.

```
resourceop <login_options> -L /static/xml/isp.navbar.xml -s <skin_name> revert
```

Adding links in the shortcuts area

The following procedure explains how to add a link, such as **Weekly Usage Reports**, next to the **Usage Reports** option (*Reports* section) in the shortcuts area of the Server Administrator control panel.

▼ To add a custom link in the shortcuts area:

1 Log in to the Ensim Pro server as the root user.

2 Verify that the resource `/static/xml/isp.dashboard.xml` exists.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> list
```

3 Download the resource.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> -O /tmp/isp.dashboard.xml download
```

4 Make the required changes to the file `/tmp/isp.dashboard.xml`, and save your changes. For example, to add a link **Weekly Usage Reports**, next to the **Usage Reports** option (*Reports* section), insert the **Weekly Usage Reports** XML snippet as shown in the [shortcut area links illustration](#) on page 27.

5 Upload the resource to the Ensim Pro server.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> -U /tmp/isp.dashboard.xml customize
```

The resource is customized. To verify the result, log in to the Server Administrator control panel and refresh the Web page.

If you want to revert your changes, type the following command.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> revert
```

Relocating shortcuts sections

You can regroup or relocate the sections in the shortcuts matrix as required. The following procedure explains how to swap the locations of the **Sites** and **Reports** sections in the shortcuts area.

▼ To relocate shortcuts sections:

1 Log in to the Ensim Pro server as the root user.

2 Verify that the resource `/static/xml/isp.dashboard.xml` exists.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> list
```

3 Download the resource.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> -O /tmp/isp.dashboard.xml download
```



- 4 Make the required changes to the file `/tmp/isp.dashboard.xml`. For example, to swap the **Sites** and **Reports** sections, locate the XML snippets for the **Sites** and **Reports** sections, swap them as shown in the [relocating shortcuts illustration](#) on page 28. Save your changes.
- 5 Upload the resource to the Ensim Pro server.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> -U /tmp/isp.dashboard.xml customize
```

The resource is customized. To verify the results, log in to the Server Administrator control panel and refresh the Web page.

If you want to revert your changes, type the following command.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> revert
```

Regrouping the shortcuts matrix

By default, the cocoon skin displays the sections in the shortcuts area as a 3 X 3 matrix. You can regroup the sections to display it as a 2 X 3 or 2 X 2 matrix.

▼ To regroup the shortcuts matrix:

- 1 Log in to the Ensim Pro server as the root user.

- 2 Verify that the resource `/static/xml/isp.dashboard.xml` exists.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> list
```

- 3 Download the resource.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> -O /tmp/isp.dashboard.xml download
```

- 4 Make the required changes to the file `/tmp/isp.dashboard.xml`. For example, to regroup the shortcuts sections into a 3 X 3 matrix, update the value of the attribute `<columns>3</columns>` as shown in the following figure, and save your changes.

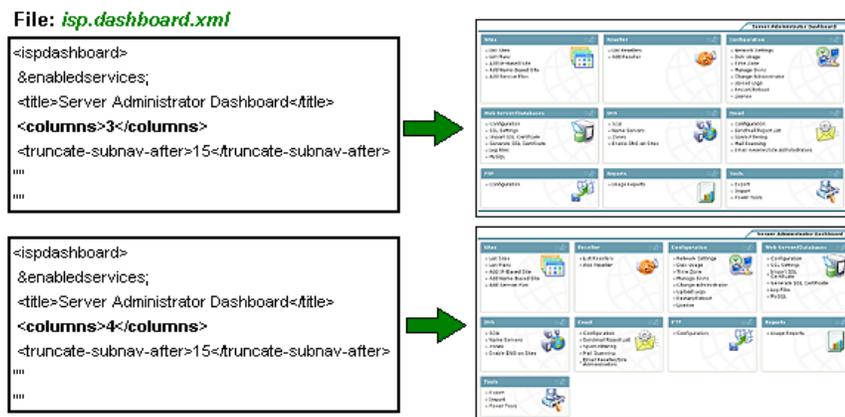


Figure 3. Regrouping the shortcuts matrix

- 5 Upload the resource to the Ensim Pro server.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> -U /tmp/isp.dashboard.xml customize
```



The resource is customized. To verify the results, log in to the Server Administrator control panel and refresh the Web page.

If you want to revert your changes, type the following command.

```
resourceop <login_options> -L /static/xml/isp.dashboard.xml -s <skin_name> revert
```

Customizing the font and color palette

To customize the font and color palette, you need to modify the `.css` file used by the administrative level. Each administrative level has its own `.css` file in the directory `/usr/lib/ensim/frontend/skins/<skin_name>/css/`. The `.css` files in the directory are:

- **global.css.** Used to modify global style information common to all levels, for example, the styles used to display the *Log in* page.
- **isp.global.css.** Used to modify the style information on the Server Administrator control panel
- **reseller.global.css.** Used to modify the style information on the Reseller Administrator control panel
- **site.global.css.** Used to modify the style information on the Site Administrator control panel
- **user.global.css.** Used to modify the style information on the User Administrator control panel

The following procedure describes the steps to change the font color of a menu option in the left navigation bar.

▼ To customize the font color of a menu option in the left navigation bar:

- 1 Log in to the Server Administrator control panel.
- 2 Identify the class that contains the style configuration information for the left navigation bar.

To identify the class, drag the pointer to select a few menu options on the left navigation bar, right-click on the selected text, then select the option *View Selection Source*. The HTML source code is displayed.

In the HTML source code, locate the class that corresponds to the left navigation bar. The class name for the left navigation bar is **navbar-item**.

```
< p class="navbar-item">< a href="/isp/listservices" target="main">services</a>< /p>
```

- 3 Log in to the Ensim Pro server as the root user.
- 4 Verify that the resource `/static/xsl/isp.navbar.xsl` exists.

```
resourceop <login_options> -L usr/lib/ensim/frontend/skins/<skin_name>/css/isp.global.css -s <skin_name> list
```

- 5 Download the resource.

```
resourceop <login_options> -L usr/lib/ensim/frontend/skins/<skin_name>/css/isp.global.css -s <skin_name> -O /tmp/isp.global.css download
```

- 6 Make the required changes to `/tmp/isp.global.css`. Locate the section that defines the style information for the left navigation

```
.navbar-item a, .navbar-item a:visited {
    text-transform: uppercase;
    padding-left: 15px;
    padding-top: 3px;
    padding-bottom: 3px;
```



```
display: block;
text-decoration:none;
color: #333333;
background-image: url(/static/images/navbar-item-
bullet1.gif);
background-repeat: no-repeat;
background-position: 2px center;
cursor:hand;
margin-right:10px;
```

7 Locate the attribute that defines the text color. In this example, locate the line `color: #333333;`

8 Update the style information as required and save the file.

9 Upload the resource to the Ensim Pro server.

```
resourceop <login_options> -L usr/lib/ensim/frontend/skins/<skin_name>/css/isp.global.css -s
<skin_name> -U /tmp/isp.global.css customize
```

The resource is customized. To verify the results, log in to the Server Administrator control panel and refresh the Web page.

If you want to revert your changes, type the following command.

```
resourceop <login_options> -L usr/lib/ensim/frontend/skins/<skin_name>/css/isp.global.css -s
<skin_name> revert
```

Customizing icons

You can replace the default Ensim Pro images with custom icons that suit your branding preferences. To replace an existing image, save the customized image using the file name of the original image, then replace the original image with the customized image. Make sure that the customized image is in the same graphic format as the original image. For example, do not copy a `.png` file as a `.gif` file.

For best results, make sure that the dimensions of the new image are the same as that of the original image as this will affect the visual appearance of the page.

▼ To customize icons:

1 Log in to the Ensim Pro server as the root user.

2 Assuming that the new image resides at `ftp://ftp.example.com/images/home/events_inbox.gif`, you can customize the `/static/images/email.gif` resource by typing the following command:

```
resourceop <login_options> -L /static/images/email.gif -U
ftp://ftp.example.com/images/home/events_inbox.gif -s cocoon customize
```

3 Refresh the Web page to view the change.

Relocating information panels on the left navigation bar

You can modify the default positioning of information panels on the left navigation bar by modifying the corresponding XSL style sheet. The following procedure provides instructions for relocating the **Login Info** panel.

▼ To relocate information panels on the left navigation bar:

1 Log in to the Ensim Pro server as the root user.

- 2 Verify that the resource `/static/xsl/isp.navbar.xsl` exists.
`resourcecop <login_options> -L /static/xsl/isp.navbar.xsl -s <skin_name> list`
- 3 Download the resource.
`resourcecop <login_options> -L /static/xsl/isp.navbar.xsl -s <skin_name> -O /tmp/isp.navbar.xsl download`
- 4 Make the required changes to `/tmp/isp.navbar.xsl` as shown in the following figure and save the changes.

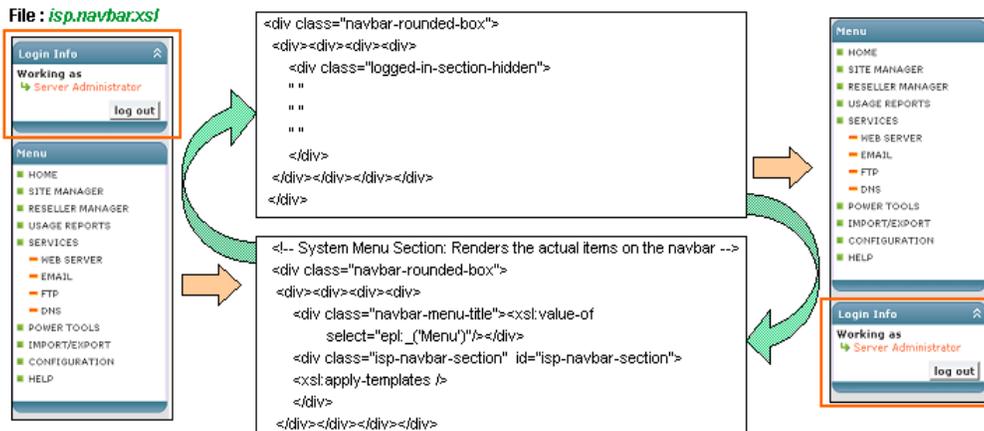


Figure 4. Relocating information panels

- 5 Upload the resource to the Ensim Pro server.
`resourcecop <login_options> -L /static/xsl/isp.navbar.xsl -s <skin_name> -U /tmp/isp.navbar.xsl customize`

The resource is customized. To verify the results, log in to the Server Administrator control panel and refresh the Web page.

If you want to revert your changes, type the following command.

`resourcecop <login_options> -L /static/xsl/isp.navbar.xsl -s <skin_name> revert`

Miscellaneous customizations

This section illustrates miscellaneous customizations you can perform on Ensim Pro. The section does not explicitly detail the customization process but uses graphical depictions to provide referential pointers to the files and classes you need to identify for customization.

Note: Some of the images used to illustrate the customizations exceed standard dimensions. These images are displayed in landscape mode in [Appendix A](#) on page 26.

For each of the following interface components, the illustration maps the various customizable elements to their corresponding HTML translation to facilitate easy identification of their classes and attributes. To customize, edit the XSL file that corresponds to the administrative level.

- **Top display bar.** See [Customizing the top display bar](#) on page 29
- **Left navigation bar.** See [Customizing the left navigation bar](#) on page 30
- **Top navigation bar.** See [Customizing the top navigation bar](#) on page 31

- **Dashboard.** See [Customizing the dashboard](#) on page 32
- **Forms.** See [Customizing the forms](#) on page 33
- **Flip lists.** See [Customizing the flip lists](#) on page 34

List of referenced images

Adding links to the left navigation bar

Filename : *isp.navbar.xml*

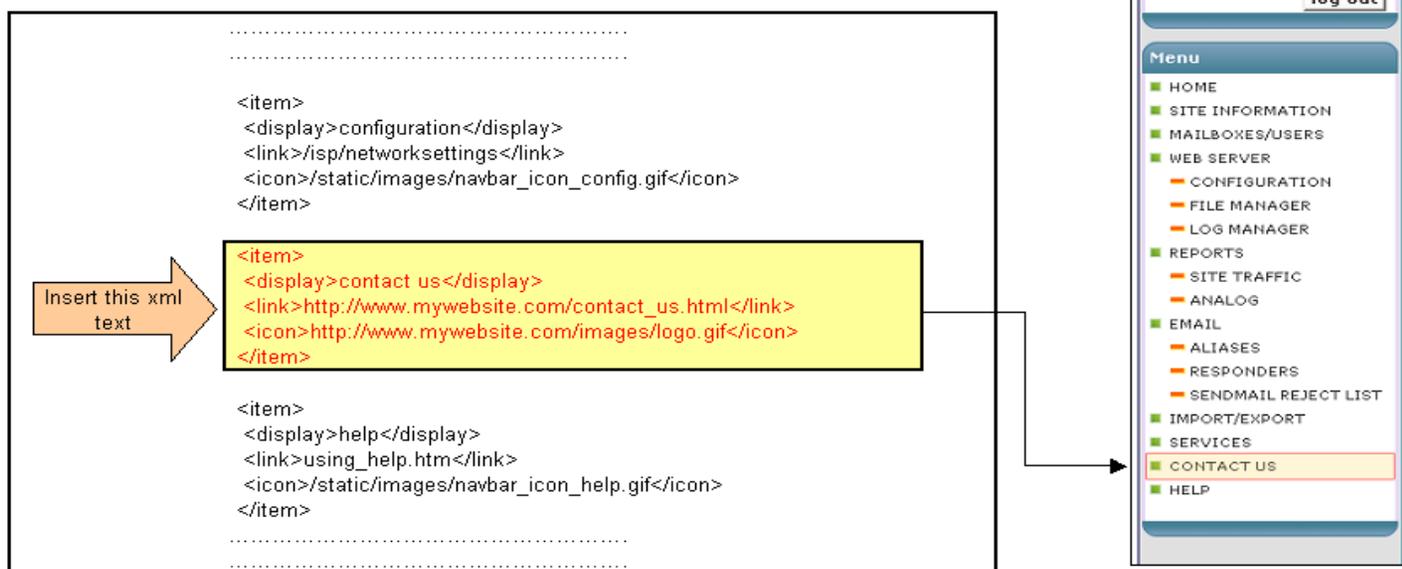


Figure 5. Adding links to the left navigation bar



Adding links in the shortcuts area

File: *isp.dashboard.xml*

```

<section>
<caption>Reports</caption>
<image>/static/images/report.gif</image>
<service/>
<item>
<display>Usage Reports</display>
<link>/isp/services/bandwidth/show_bandwidth</link>
<help>oh_appl_viewing_current_domain_bandwidth_usage.htm</help>
<service>bandwidth</service>
</item>
<item>
<display>Weekly Usage Reports</display>
<link>/isp/services/bandwidth/show_bandwidth_weekly</link>
<help>oh_appl_viewing_current_domain_bandwidth_usage.htm</help>
<service>bandwidth</service>
</item>
</section>

```

Inserted →

Figure 6. Adding links in the shortcuts area

Relocating shortcuts sections

File: *isp.dashboard.xml*

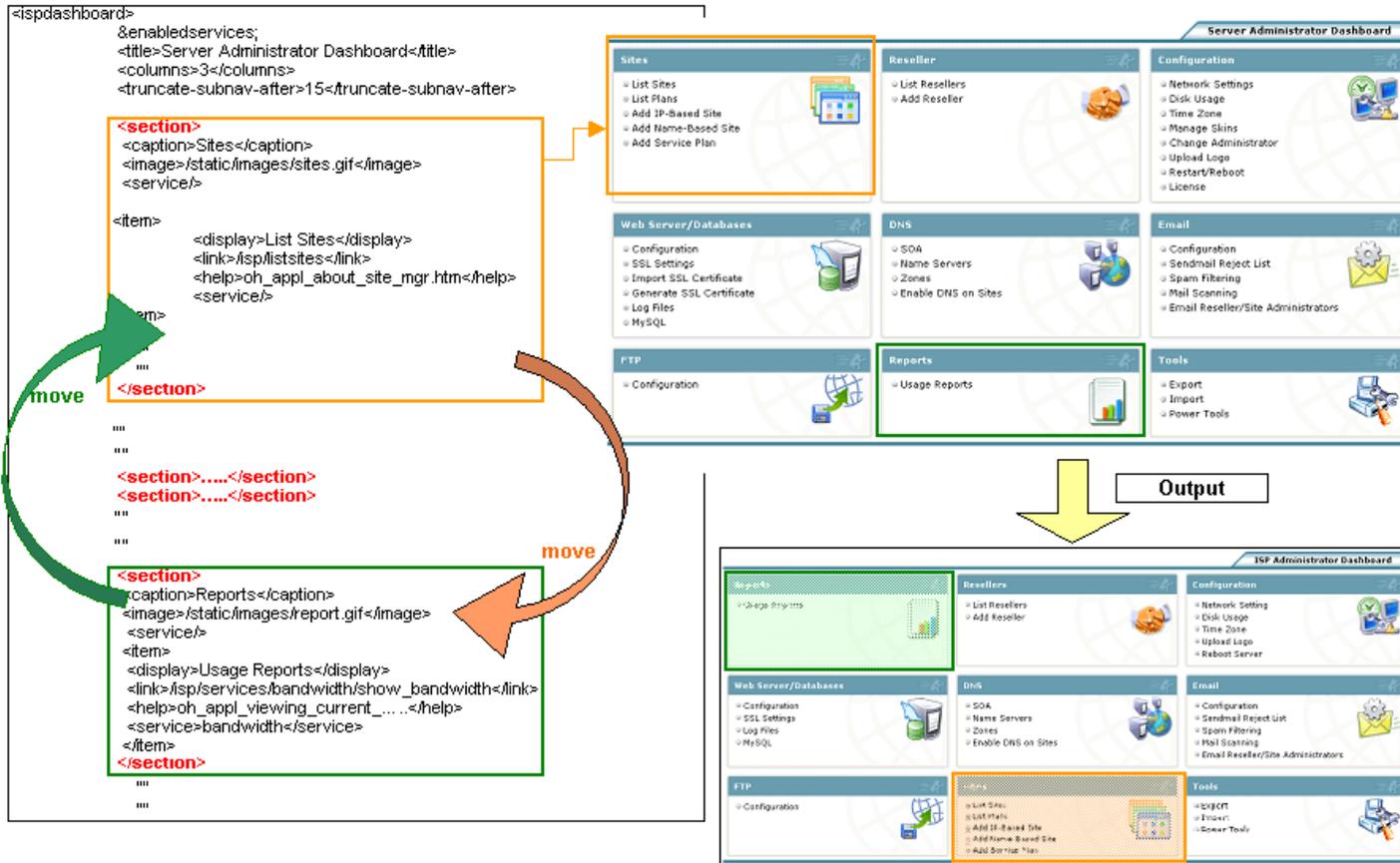
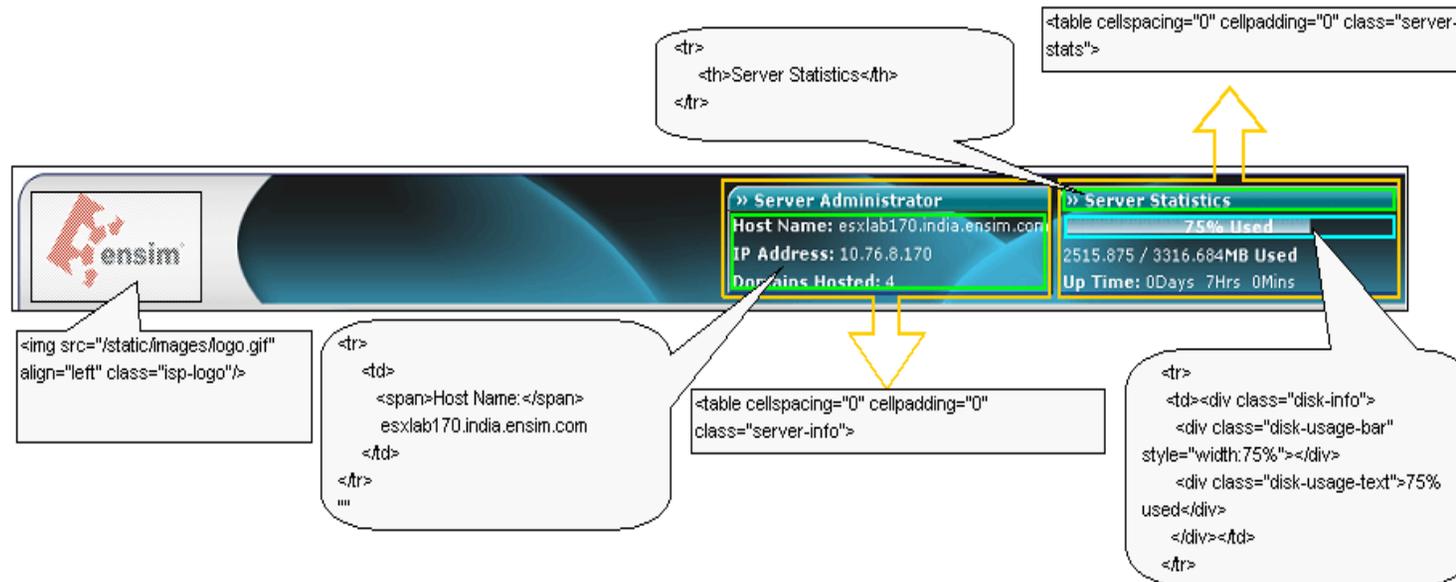


Figure 7. Relocating shortcuts sections

Customizing the top display bar



Notes :

- * **Server Administrator** : The file *isp.top.xsl* transforms the file *isp.top.xml* to generate the HTML output.
- * **Reseller Administrator** : The file *reseller.top.xsl* transforms the file *reseller.top.xml* to generate the HTML output.
- * **Site Administrator** : The file *siteadmin.top.xsl* transforms the file *siteadmin.top.xml* to generate the HTML output.
- * **User Administrator** : The file *siteuser.top.xsl* transforms the file *siteuser.top.xml* to generate the HTML output.

Location of directory for XML files : [root] / static / xml

Location of directory for XSL files : [root] / skins / [skin name] / xsl

Figure 8. Customizing the top display bar



Customizing the left navigation bar



```

<div class="navbar-rounded-box">
<div><div><div><div>

<div class="logged-in-section-hidden">
<div class="toggle-div" id="login_info">Login Info</div>

<div class="logged-in-users">Logged in as
<div>Server Administrator</div>
</div>

<div class="logged-in-users">Working as
<div>Site Administrator</div>
</div>

<div class="logout">
<input type="button"
onClick="window.parent.location=/siteadmin/logout;"
value="log out"/>
</div>
</div></div></div></div>
</div>

<div class="navbar-rounded-box">
<div><div><div><div>
<div class="navbar-menu-title">Menu</div>
<div class="isp-navbar-section" id="isp-navbar-section">
<p class="navbar-item"><a href="/siteadmin/main"
target="main">Home</a></p>
<p class="navbar-item"><a href="/siteadmin/siteinfo"
target="main">Site Information</a></p>
"
"
<p class="navbar-item"><span>Reports</span></p>
<p class="navbar-item-sub1">
<a href="/siteadmin/services/bandwidth/view_site_usage"
target="main">Site Traffic</a>
</p>
"
"
</div>
</div></div></div></div>
</div>

```

Notes :

- * **Server Administrator** : The file *isp.navbar.xsl* transforms the file *isp.navbar.xml* to generate the HTML output.
- * **Reseller Administrator** : The file *reseller.navbar.xsl* transforms the file *reseller.navbar.xml* to generate the HTML output.
- * **Site Administrator** : The file *siteadmin.navbar.xsl* transforms the file *siteadmin.navbar.xml* to generate the HTML output.
- * **User Administrator** : The file *siteuser.navbar.xsl* transforms the file *siteuser.navbar.xml* to generate the HTML output.

Location of directory for XML files : [root] / static / xml

Location of directory for XSL files : [root] / skins / [skin name] / xsl

Figure 9. Customizing the left navigation bar

Customizing the top navigation bar

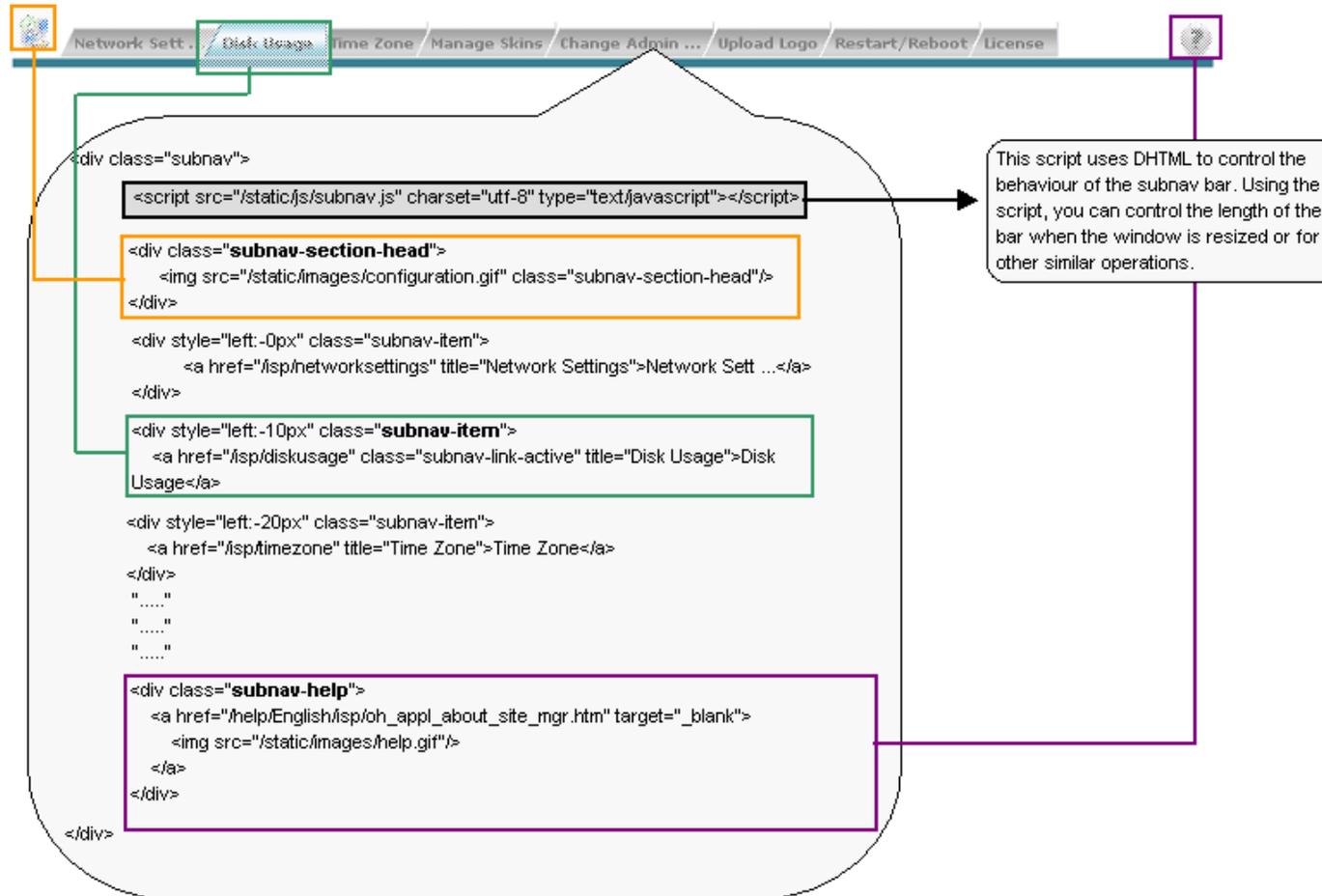


Figure 10. Customizing the top navigation bar



Customizing the dashboard

```
<table class="isp-dashboard" cellspacing="0">
<tr>
<td colspan="3" class="isp-dashboard-title">
<div>Server Administrator Dashboard</div>
</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
</tr>
</table>
```

```
<td>
<table width="100%" height="100%" cellspacing="0">
<tr>
<td class="isp-dashboard-section-top-l">
<td class="isp-dashboard-section-top">
<td class="isp-dashboard-section-top-r">
</tr>
<tr>
<th class="isp-dashboard-section-left">
<th class="isp-dashboard-section-head">Sites</th>
<th class="isp-dashboard-section-right">
</tr>
<tr>
<td class="isp-dashboard-section-left">
<td valign="center" class="isp-dashboard-section-contents">

<p><a href="/isp/listsites.htm">List Sites</a></p>
<p><a href="/isp/aliases.htm">List Plans</a></p>
<p><a href="/isp/addsite.htm">Add Site</a></p>
<p><a href="/isp/addplan">Add Plan</a></p>
</td>
<td class="isp-dashboard-section-right">
</tr>
</tr>
</td>
```

Notes :

- * **Server Administrator :** The file *isp.main.xsl* transforms the file *isp.dashboard.xml* to generate the HTML output.
- * **Reseller Administrator :** The file *reseller.main.xsl* transforms the file *reseller.dashboard.xml* to generate the HTML output.
- * **Site Administrator :** The file *siteadmin.main.xsl* transforms the file *siteadmin.dashboard.xml* to generate the HTML output.
- * **User Administrator :** The file *situser.main.xsl* transforms the file *situser.dashboard.xml* to generate the HTML output.

Location of directory for XML files : [root] / static / xml
Location of directory for XSL files : [root] / skins / [skin name] / xsl

Figure 11. Customizing the dashboard



Customizing the forms

Validation Errors:

- ⤵ Site Name is mandatory field
- ⤵ The length of Site Name cannot be less than 3
- ⤵ Administrator User Name is mandatory field
- ⤵ The length of Administrator User Name cannot be less than 1
- ⤵ Administrator Password is mandatory field
- ⤵ The length of Administrator Password cannot be less than 1
- ⤵ Confirm Administrator Password is mandatory field
- ⤵ The length of Confirm Administrator Password cannot be less than 1
- ⤵ Email Account is mandatory field
- ⤵ The length of Email Account cannot be less than 1
- ⤵ The length of IP Address cannot be less than 7

Note: Error messages cannot be customized.

Code Snippets:

```
<div style="display: block;" id="div.validationerror" class="validationerrors"></div>
```

```
<DIV CLASS="cool-green-box">
<DIV><DIV><DIV>
```

```
<FORM ACTION="/fsp/doesitSite" METHOD="post" name="editSite">
```

```
<P CLASS="form-title-section">
<SPAN CLASS="form-title-text">Add IP-based Site</SPAN>
<SPAN CLASS="form-help-text"><B>Adding Site Involves the following two
steps: </B></SPAN>
<SPAN CLASS="tab-1">1. Configuring the Site Information. Here, you have the
option of selecting an
existing Service Plan.</SPAN>
<BR/>
```

```
<TABLE WIDTH="50%" ALIGN="center" BORDER="0">
<TR>
<TH COLSPAN="2" ROWSPAN="1">Step 1: Site Information</TH>
</TR>
<TR>
<TH COLSPAN="2" ROWSPAN="1" CLASS="th2">Site Information</TH>
</TR>
<TR>
<TD>Site Name</TD>
<TD><INPUT TYPE="text" name="siteinfo_domain" VALUE="a12345.com"/></TD>
```

```
</FORM>
```

```
</DIV>
</DIV></DIV></DIV>
```

Add IP-based Site

Adding a site involves the following two steps:

1. Configuring the Site Information. Here, you have the option of selecting an existing Service Plan.
2. Adding the site, or clicking on 'Advanced' to configure the Service Plan in detail.
3. Creating a new site can take up to several minutes.

Notes:

1. Input fields will automatically be converted into lower case.
2. IP based plans are available to IP based sites only, likewise for Name Based plans.
3. Default plan is available to both.
4. You should not put www in front of site name.
5. To add a site with squirrelmail enabled, you will need approximately 9 MB free space. If the site has MivaMerchant, you will require an additional 11 MB free space.

Step 1: Site Information

Site Information

Site Name

Administrator User Name

Administrator Password

Confirm Administrator Password

Email Contact

Security Level High Medium Low

IP Address

Select a Service Plan

Figure 12. Customizing the forms



Customizing the flip lists

The screenshot shows the 'View Subscribed Services' interface. A note at the top says 'Stop any services that you are not utilizing on this server.' Below is a table of services with columns for Name, Version, Status, and Actions. The table includes services like Analog Web/FTP Log Analyzer, DNS Server, OpenSSH Secure Shell, Telnet, POP3 + Imap Server, Apache Web Server, Email, FTP, Power Tools, and OpenSSL Secure Web. At the bottom, there is a 'Record Navigation Bar' with '10 items per page' and 'Page 1 of 3'.

Annotations include:

- Help Section:**

```
<div class="fliplist-help-text-section">
  <span class="fliplist-help-title">Note</span>
  <span class="fliplist-help-text">Stop any service that you are not utilizing on this server </span>
</div>
```
- Action Bar:**

```
<div class="fliplist-action-bar">
  <div class="fliplist-button-container">
    <input name="add" class="button" value="Add an Alias" type="submit">
  </div>
  <div class="fliplist-search-bar">
    Show: <select id="searchby" name="searchby">
      <option value="site">Site</option><option value="ipaddress">IP Address</option>
    </select>
    <input tabindex="1" type="text" id="searchtext" name="searchtext"
      onKeyPress="keyPressSearch(event.keyCode);" />
    <input name="searchbutton" tabindex="2" type="button" class="button"
      value="Search" id="searchbutton" />
    <input name="showall" tabindex="3" type="button" class="button" value="show all"
      id="showall" />
  </div>
</div>
```
- Note:** "Note: This whole div is OPTIONAL. If you want to simply display a flip list without the search bar or buttons, then ignore the DIV."
- Table:**

```
<table id="fliplist" name="fliplist" width="100%">
  <tbody>
    <tr>
      <td class="fliplist-column-head">...</td>
      <td class="fliplist-even">...</td>
      <td class="fliplist-odd">...</td>
    </tr>
  </tbody>
</table>
```
- Page Bar:**

```
<table width="100%" class="fliplist-page-bar">
  <tr>
    <td class="fliplist-itemsp" >
      <select id="itemsp" name="itemsp">...</select>
      <span>items per page</span>
    </td>
    <td class="fliplist-pagenumbers" align="center">
      <span>Page </span>
      <span id="currentpage" name="currentpage">1</span>
      <span> of </span>
      <span xml:ns="" class="fliplist-totalpages" name="totalpages"
        id="totalpages">1</span>
    </td>
    <td class="fliplist-pagenav" align="right">
      
      
      
      
    </td>
  </tr>
</table>
```

Figure 13. Customizing the flip lists

ENSIM PRO - LINUX

ENSIM CORPORATION
1366 Borregas Avenue
Sunnyvale, California 94089
www.ensim.com

