



BEA WebLogic Commerce Server

Guide to Registering Customers and Managing Customer Services

BEA WebLogic Commerce Server 3.5
Document Edition 3.5
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Guide to Registering Customers and Managing Customer Services

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About This Document

This document explains how to use the services available within BEA WebLogic Commerce Server™ Registering Customers and Managing Customer services.

This document includes the following topics:

- Chapter 1, “Overview of Guide to Registering Customers and Managing Customer Services,” which describes the high-level architecture and provides introductory information about the services.
- Chapter 2, “Customer Registration and Login Services,” which describes the JSP templates, input processors, and Pipelines associated with the customer registration and login Web pages.
- Chapter 3, “Customer Profile Services,” which describes the JSP templates, input processors, and Pipelines associated with the customer profile Web pages.
- Chapter 4, “Customer Self-Service,” which describes the JSP templates, input processors, and Pipelines associated with the customer self-service Web pages.

What You Need to Know

This document is intended for the following audiences:

- The commerce engineer/JSP content developer, who uses JSP templates and tag libraries to implement interactive Web pages to meet business requirements. This user also maintains simple configuration files.

-
- The business analyst, who defines the company's business protocols (processes and rules) for a business-to-consumer Web site. This user may set pricing policies and discounts, and may plan promotional advertising.
 - The site administrator, who uses Commerce and Personalization Server administration screens to configure the site's rules, portals, property sets, user profiles, content delivery, and product catalog.
 - The Java/EJB programmer, who creates custom code to insert in the JSP files. This user may also handle complex configuration files.

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How to Print the Document

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A PDF version of this document is available on the WebLogic Commerce Server and WebLogic Personalization Server documentation Home page on the e-docs Web site (and also on the documentation CD). You can open the PDF in Adobe Acrobat Reader and print the entire document (or a portion of it) in book format. To access the PDFs, open the WebLogic Commerce Server and WebLogic Personalization Server documentation Home page, click the PDF files button and select the document you want to print.

If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at <http://www.adobe.com/>.

Related Information

The following BEA WebLogic Commerce Server documents contain information that is relevant to using the Guide to Registering Customers and Managing Customer Services and understanding how to customize or extend the provided services.

- *[Guide to Managing Presentation and Business Logic:Using Webflow and Pipeline](#)*
- *[Guide to Managing Purchases and Processing Orders](#)*
- *[Guide to Building a Product Catalog](#)*
- For more information about J2EE as it relates to WebLogic Server security, see the information posted on the Sun Microsystems, Inc. Java™ 2 Platform, Enterprise Edition Web site at <http://java.sun.com/j2ee/>.

Contact Us!

Your feedback on the BEA WebLogic Commerce Server and WebLogic Personalization Server documentation is important to us. Send us e-mail at **docsupport@bea.com** if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the WebLogic Commerce Server and WebLogic Personalization Server documentation.

In your e-mail message, please indicate that you are using the documentation for the BEA WebLogic Commerce Server and WebLogic Personalization Server 3.5 release.

If you have any questions about this version of BEA WebLogic Commerce Server and WebLogic Personalization Server, or if you have problems installing and running BEA WebLogic Commerce Server and WebLogic Personalization Server, contact BEA Customer Support through BEA WebSupport at <http://www.bea.com>. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
boldface text	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
<i>italics</i>	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and filenames and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre>
monospace boldface text	Identifies significant words in code. <i>Example:</i> <pre>void commit ()</pre>

Convention	Item
<i>monospace</i> <i>italic</i> <i>text</i>	Identifies variables in code. <i>Example:</i> String <i>expr</i>
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples:</i> LPT1 SIGNON OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed. <i>Example:</i> buildobjclient [-v] [-o name] [-f <i>file-list</i>]... [-l <i>file-list</i>]...
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
...	Indicates one of the following in a command line: <ul style="list-style-type: none"> ■ That an argument can be repeated several times in a command line ■ That the statement omits additional optional arguments ■ That you can enter additional parameters, values, or other information The ellipsis itself should never be typed. <i>Example:</i> buildobjclient [-v] [-o name] [-f <i>file-list</i>]... [-l <i>file-list</i>]...
.	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.



1 Overview of Guide to Registering Customers and Managing Customer Services

The processes related to customer (user) profiles and customer self-service are necessary components of any e-business expecting return customers. To help you get to market faster than your competitors, the BEA WebLogic Commerce Server product provides you with the Registering Customers and Managing Customer services. This package contains default implementations for the most common pre- and post-order processing services (registration, login, customer profile creation/updates, and customer self-service pages). The registration and user JSP templates also allow your site designers to customize these processes, without the need for advanced programming skills. This topic provides you with some background information about the Registering Customers and Managing Customer services, and introduces you to the types of services that are available.

This topic includes the following sections:

- What Are the Registering Customers and Managing Customer Services?
- High-level Architecture
- About the Database Schema
- Development Roles

- Next Steps

What Are the Registering Customers and Managing Customer Services?

The Registering Customers and Managing Customer services are a collection of JSP templates used to facilitate the registration of customers with your e-business site and the activities customers can perform after registering. There are services for registration, login, customer profile creation/updates, and so on. Additionally, the customer self-service pages provide your customers with the ability to check the status of orders and payments.

As shown in Figure 1-1, each service in the package consists of one or more JavaServer Pages (JSPs) and the business logic associated with them. Some of these templates may collect information from your customers, while others will simply display dynamic data your customer previously supplied. Some JSPs may do both. This logic is implemented as a combination of Input Processors and Pipeline components, each of which can be modified to suit your needs. You can also create your own Input Processors and Pipeline components to plug into the JSP templates for the Registering Customers and Managing Customer services.

Figure 1-1 Structure of Guide to Registering Customers and Managing Customer Services



Because all of the business logic is managed by a Pipeline and accessed within a Pipeline session, the state of your customers' experiences can be maintained. For detailed information about Pipelines (including Pipeline components and Pipeline sessions), see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

In addition to the templates available in the Registering Customers and Managing Customer services, the WebLogic Commerce Server product also contains templates for browsing the product catalog and for order and purchase processing. For information on services related to the product catalog, see the [Guide to Building a Product Catalog](#). For information on services related to order and purchase processing, see the [Guide to Managing Purchases and Processing Orders](#).

High-level Architecture

The Registering Customers and Managing Customer services is essentially an application that utilizes the Webflow/Pipeline infrastructure. Before you begin to customize or extend this application, however, it is important that you have a high-level understanding of how all the JSP templates work together in the default Webflow. It is also important that you understand how this package works in conjunction with the order and purchase processing JSP templates described in the *Guide to Managing Purchases and Processing Orders*.

- For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic:Using Webflow and Pipeline*.
- For more information about order and purchase processing, see the *Guide to Managing Purchases and Processing Orders*.

Figure 1-2 shows the ways in which a customer might move through the JSP templates in the login and registration portion of the Registering Customers and Managing Customer services. It also shows how the user processing services, the product catalog services, and the order and purchase processing services are used.

- Although this diagram shows the shopping cart management piece of the Webflow, it is not discussed in this document. For more information about the shopping cart and the checkout process, see “[Shopping Cart Management Services](#)” in the *Guide to Managing Purchases and Processing Orders*.

Figure 1-2 Default Webflow for Login/Registration

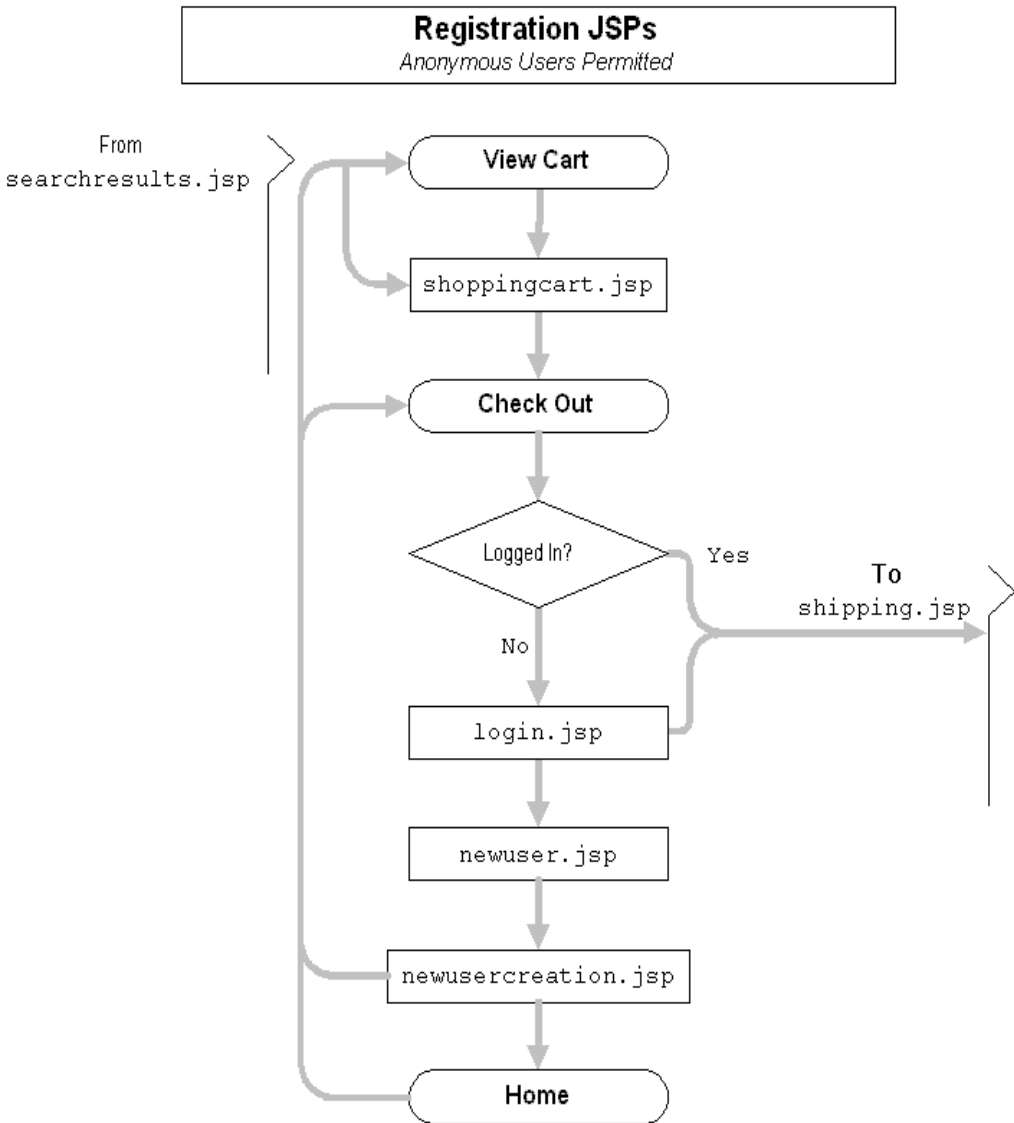
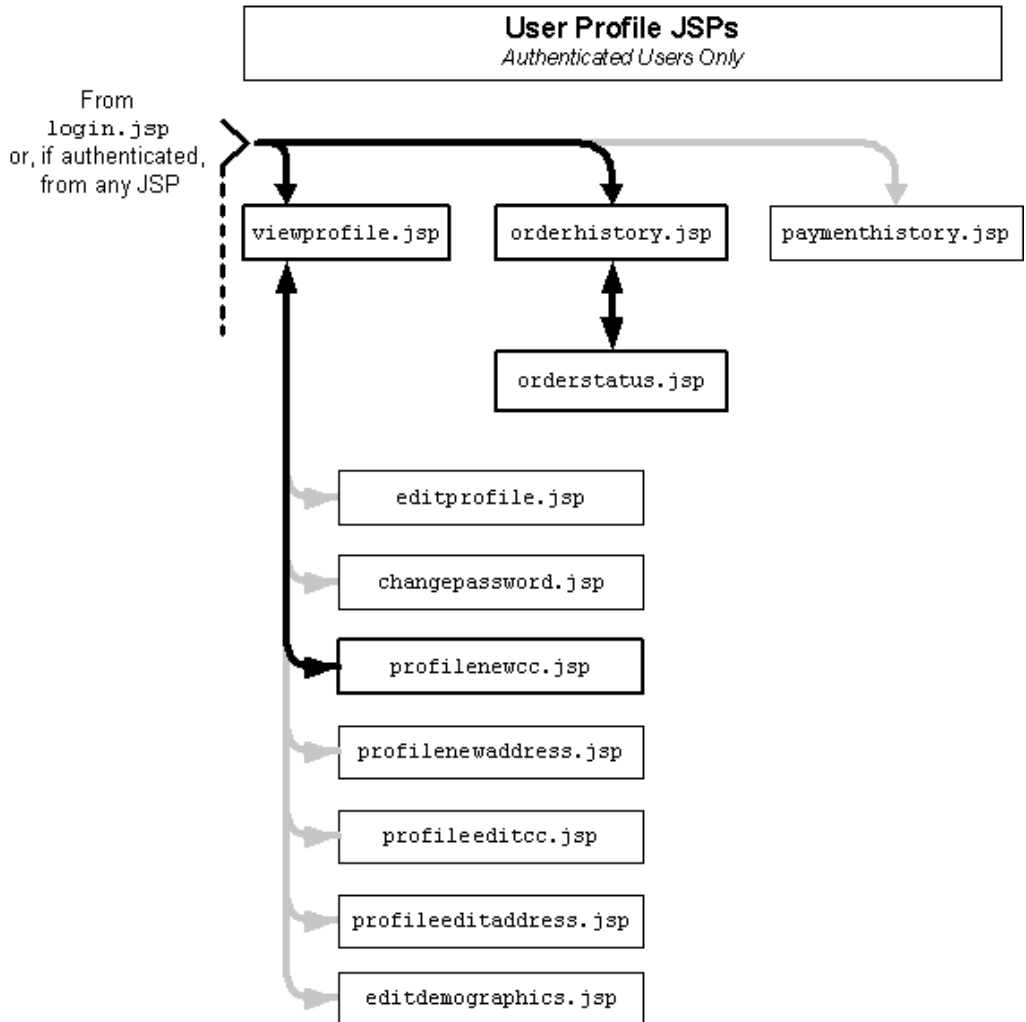


Figure 1-3 shows the ways in which your customer might move through the JSP templates in the user processing and customer self-service portions of the Registering Customers and Managing Customer services. It also shows how the product catalog services, the order and purchase processing services, and the login/registration JSPs are used.

Figure 1-3 Default Webflow for User Processing/Customer Self-Service



Note: All JSP templates include other templates, making it easy for you to create new pages with the same look and feel.

Whether you are customizing or extending this architecture, everything you need to know about the Registering Customers and Managing Customer services (including the JSP templates, Input Processors, and associated Pipeline components) is provided in this document.

About the Database Schema

The database schema used for Guide to Registering Customers and Managing Customer Services is the one used for the BEA WebLogic Personalization Server. For more information about this database schema, see “[WebLogic Personalization Server Database Schema](#)” in the WebLogic Personalization Server *Guide to Building Personalized Applications*. Additionally, customer profiles in the BEA WebLogic Commerce Server are implemented as Unified User Profiles (UUP). For more information about UUP, see “[Creating and Managing Users](#)” in the *Guide to Building Personalized Applications*.

Development Roles

This document is intended for the following audiences:

- The commerce engineer/JSP content developer, who uses JSP templates and tag libraries to implement interactive Web pages to meet business requirements. This user also maintains simple configuration files.
- The business analyst, who defines the company’s business protocols (processes and rules) for a business-to-consumer Web site. This user may set pricing policies and discounts, and may plan promotional advertising.
- The site administrator, who uses WebLogic Commerce Server and WebLogic Personalization Server administration screens to configure the site’s rules, portals, property sets, user profiles, content delivery, and product catalog.

- The Java/EJB programmer, who creates custom code to insert in the JSP files. This user may also handle complex configuration files.

Next Steps

Subsequent chapters of this document describe the Registering Customers and Managing Customer services in detail, and provide you with information about how to customize or extend the default implementations to meet your requirements. These chapters are as follows:

- “Customer Registration and Login Services”
- “Customer Profile Services”
- “Customer Self-Service”

2 Customer Registration and Login Services

For customers who plan on frequenting your e-business, it is beneficial to provide a way for them to store some personal information. In doing so, the ordering process will require less time because your customers will not need to reenter their name, address, payment information, and so on. For security, privacy, and management, however, this feature requires customers to log into your site with a username/password combination. This topic describes the JavaServer Pages (JSPs) and associated components that allow customers to register and log into your site by creating a customer profile.

This topic includes the following sections:

- JavaServer Pages (JSPs)
 - login.jsp Template
 - badlogin.jsp Template
 - newuser.jsp Template
 - newusercreation.jsp Template
 - newuserforward.jsp Template
 - usercreationforward.jsp Template
- Input Processors
 - CustomerProfileIP
 - LoginCustomerIP

- Pipeline Components
 - RegisterUserPC
 - EncryptCreditCardPC

JavaServer Pages (JSPs)

The Registering Customers and Managing Customer services contain a number of JavaServer Pages (JSPs) that handle customer registration (initial customer profile creation) and customer login. Remember, you can always use these templates for your Web site, or you can adapt them to meet your specific needs. This section describes each of these pages in detail.

Note: For a description of the complete set of JSPs used in the WebLogic Commerce Server Web application and a listing of their locations in the directory structure, see the “[Template Summary](#)” documentation.

login.jsp Template

The `login.jsp` template (shown in Figure 2-1) allows a customer who has previously created a profile to log into your e-commerce site by providing a valid username/password combination. Since this page is the entry point to the checkout process, it also establishes mechanisms (such as sessions) that will allow customers to continue their shopping experience.

For customers who have not yet registered with your site, the `login.jsp` template provides customers with an entry point into a page that allows them to register (create their initial customer profile) for subsequent use on the site.

Sample Browser View

Figure 2-1 shows an annotated version of the `login.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 2-1 Annotated login.jsp Template

The screenshot displays the `login.jsp` template with several annotated components:

- Commerce Templates Header:** Located at the top, it includes the BEA logo, navigation links for "About Current Template: login.jsp", "Template Index", and "Administration", and the text "BEA WebLogic Commerce Server 3.5 Commerce Templates".
- Page Header:** Features a "Your Logo Here" placeholder and a "Storage Boxes!" advertisement with a "Home" link.
- Left Column:** Contains a "See Our Large Selection of Saws Here!" advertisement and a notice about "Catalog data provided courtesy of IP4 Register".
- Log In Section:**
 - Registered User:** Includes a form with "Username" (containing "democustomer") and "Password" fields, and a "Log in" button. Callout: "This region provides two form fields for customers who already have a username and password combination."
 - New Customer:** Includes a "Create" button. Callout: "This region provides a link to the `newuser.jsp` template that allows new customers to register with your e-commerce site."
- Footer:** Contains "Built On" logo, "Copyright © 1999-2001, BEA Systems Inc.", and a link to "BEA Systems Inc.". Callout: "The footer is created by importing the `footer.inc` template."

Location in the WebLogic Commerce Server Directory Structure

You can find the `login.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\login.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/login.jsp (UNIX)
```

Tag Library Imports

The `login.jsp` template does not use any custom JSP tags. Therefore, the template does not include imports of any JSP tag libraries.

Java Package Imports

The `login.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

The `login.jsp` template itself is not part of the default Webflow. Rather, it is automatically loaded into the browser when a protected page is referenced by the WebLogic Server.

Note: All JSP templates in the `/order` and `/user` subdirectories are protected and are accessible only by registered and authenticated customers.

If the customer already has a username/password combination from prior registration and the customer's login is successful, the next page is the protected page the customer was attempting to access. If the customer's login is unsuccessful, the `badlogin.jsp` template is loaded.

If the customer is not yet registered and clicks on the Create button, the next page loaded allows the customer to create a profile and a username/password combination (`newuser.jsp`). After the customer has registered, the customer is automatically logged in and forwarded to the `newusercreation.jsp` template, which allows customers to continue shopping, view their shopping carts, or check out. If the auto-login is unsuccessful, the `login.jsp` template is loaded for the customer to enter their username and password. If the customer's login attempt is unsuccessful, the `badlogin.jsp` is loaded.

Notes: The option to proceed to checkout is only provided on the `newusercreation.jsp` template if there are items in the customer's shopping cart.

For a detailed description of the `main.jsp` template, see “[Product Catalog JSP Templates](#)” in the *Guide to Building a Product Catalog*.

For a detailed description of the `shoppingcart.jsp` and `shipping.jsp` templates, see “[Shopping Cart Management Services](#)” or “[Shipping Services](#)” in the *Guide to Managing Purchases and Processing Orders*.

For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

Included JSP Templates

The following JSP templates are included in the `login.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by

WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- footer.inc, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The `login.jsp` template presents a customer with two buttons, only one of which is considered an event. The event triggers a particular response in the default Webflow that allows customers to continue. The other button is a standard HTML Submit button that posts the page back to the WebLogic Server for authentication. Table 2-1 provides information about the event and the business logic it invokes.

Table 2-1 login.jsp Events

Event	Webflow Response(s)
<code>button(createUser)</code>	No business logic required. Loads <code>newuser.jsp</code> .

Note: The Login button is not an event that would trigger a Webflow response. Rather, when a customer clicks the button, control is turned over to the WebLogic Server (specifically, the RDBMS realm of the WebLogic Personalization Server). The WebLogic Server remembers the HTTP request, determines whether the customer's username and password combination is correct, and then reinvokes the Webflow using the request. Since this authentication follows the WebLogic Server and J2EE specifications, more information on this topic can be found in documents at the [BEA WebLogic Server 6.0 Documentation Center](#).

Dynamic Data Display

No dynamic data is presented on the `login.jsp` template.

Form Field Specification

The primary purpose of the `login.jsp` template is to allow customers to enter their username and password using two HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `login.jsp` template, and a description for each of these form fields are listed in Table 2-2.

Table 2-2 `login.jsp` Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (<code>login.jsp</code>), used by the Webflow.
"j_username"	Textbox	The customer's login name, passed to WebLogic Server for authentication.
"j_password"	Password	The customer's login password, passed to WebLogic Server for authentication.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpServletRequestConstants.USER_NAME %>`) for use in the JSP.

badlogin.jsp Template

The `badlogin.jsp` template (shown in Figure 2-2) informs a customer that they have entered an invalid username/password combination, and allows the customer to try logging into your e-commerce site again by providing a valid username/password combination. Except for the error message, it behaves exactly as the `login.jsp` template previously described.

Sample Browser View

Figure 2-2 shows an annotated version of the `badlogin.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 2-2 Annotated badlogin.jsp Template

The screenshot shows a web browser view of the `badlogin.jsp` template. The page has a header with the BEA logo and navigation links for 'About Current Template: login.jsp', 'Template Index', and 'Administration'. A red banner on the right says 'BEA WebLogic Commerce Server 3.5 Commerce Templates'. Below the header is a navigation bar with a 'Home' link and a promotional banner for 'Safety Equipment'. The main content area is divided into two columns. The left column contains a 'Check Out Our Low Prices on Drills!' advertisement and a catalog data notice. The right column contains the 'Log In' section, which displays a red error message: 'Login failed. Please try again or create a new account.' Below the error message are two sections: 'Registered User' with form fields for 'Username' (containing 'democustomer') and 'Password' (masked with asterisks), and a 'Log in' button; and 'New Customer' with a 'Create' button. The footer contains copyright information for BEA Systems Inc. from 1999-2001.

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

This region displays the login error message, and prompts the customer to login again or create a new account.

This region provides two form fields for customers who already have a username and password combination.

This region provides a link to the `newuser.jsp` template that allows new customers to register with your e-commerce site.

The footer is created by importing the `footer.inc` template.

Location in the WebLogic Commerce Server Directory Structure

You can find the `badlogin.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\badlogin.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/badlogin.jsp (UNIX)
```

Tag Library Imports

The `badlogin.jsp` template does not use any custom JSP tags. Therefore, the template does not include imports of any JSP tag libraries.

Java Package Imports

The `badlogin.jsp` template does not use any Java classes and therefore does not include any package import statements.

Location in Default Webflow

Customers arrive at the `badlogin.jsp` template when they fail to provide a valid username/password combination on the `login.jsp` template. If the customer is registered and the customer's second attempt at logging in is successful, the next page is the protected page the customer was attempting to access. If the customer's login is unsuccessful, the `badlogin.jsp` template is reloaded.

If the customer is not yet registered and clicks on the Create button, the next page loaded allows the customer to create a profile and obtain a username/password combination (`newuser.jsp`). After the customer has registered, the customer is automatically logged in and forwarded to the `newusercreation.jsp` template, which allows customers to continue shopping, view their shopping carts, or check out. If the auto-login is unsuccessful, the `login.jsp` template is loaded for the customer to enter their username and password. If the customer's login attempt is unsuccessful, the `badlogin.jsp` is loaded.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic:Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP template is included in the `badlogin.jsp` template:

- `login.jsp`, which creates the entire page with the exception of the error message at the top.

Events

Because the `badlogin.jsp` template includes the `login.jsp` template, the `badlogin.jsp` template uses the same events. For more information about these events, see “login.jsp Template” on page 2-3.

Dynamic Data Display

No dynamic data is presented on the `badlogin.jsp` template.

Form Field Specification

Because the `badlogin.jsp` template includes the `login.jsp` template, the `badlogin.jsp` template uses the same form fields. For more information about these form fields, see “login.jsp Template” on page 2-3.

newuser.jsp Template

The `newuser.jsp` template (shown in Figure 2-3 through Figure 2-6) allows a new customer to register with your e-commerce site by creating their customer profile, which includes personal information, shipping address information, payment information (optional), and account information.

Sample Browser View

Figure 2-3 through Figure 2-6 show annotated versions of the `newuser.jsp` template. Although there are four figures, together these screen shots form the single `newuser.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 2-3 Annotated newuser.jsp Template - Personal Information

The Commerce Templates header (admin.inc) contains useful information for the benefit of you and your development team.

The page header is created by importing the header.inc template.

The left column is created by importing the leftside.inc template.

Catalog data provided courtesy of [IPN Register](#), where supply meets demand.

BEA WebLogic Commerce Server 3.5
Commerce Templates

About Current Template: **newuser.jsp**

Template Index Administration

Your Logo Here

Home

This registration form populates the Unified Customer Profile (UCP). Through the Campaign Manager you can use this information to create rules that target content based upon specific user profiles. [Register now](#) to see for yourself.

Register Now and save \$10 on your order of at least \$50 placed today!!

Create a New Account

If you already have an account, use your browser's Back button to return to the Login page and log in from there.

First name *

Middle initial

Last name *

Address *

Address 2

City *

State / Province (Required for U.S. and Canadian address)

Zip/Postal Code *

Country *

Home phone

Business phone

Email address *

Yes, I want to be offered specials and notified of discounts. Please send me promotional e-mail.

This region provides form fields for customers to enter their personal customer profile information, including their name, address, phone number(s), and email address.

Figure 2-4 Annotated newuser.jsp Template - Demographic Information

This Demographic Information region provides radio buttons/form fields for customers to provide demographic information that can interface with the BEA E-Business Control Center, allowing a business analyst to define, regulate, and personalize campaigns for each customer that visits your site.

Demographic Options	
Gender *	<input type="radio"/> Female <input type="radio"/> Male
Date of Birth *	<input type="text"/> (mm/dd/yyyy)
Occupation *	<input type="radio"/> Clerical <input type="radio"/> Executive Management <input type="radio"/> Professional <input type="radio"/> Engineering <input type="radio"/> Management <input type="radio"/> Sales
Employment Status *	<input type="radio"/> Not employed, not looking for work <input type="radio"/> Self-employed <input type="radio"/> Employed <input type="radio"/> Not employed, looking for work
Marital Status *	<input type="radio"/> Widowed <input type="radio"/> Married <input type="radio"/> Single <input type="radio"/> Divorced
Education Level *	<input type="radio"/> High School <input type="radio"/> College Graduate <input type="radio"/> Graduate Degree <input type="radio"/> Professional Degree <input type="radio"/> Some College
Income Range *	<input type="radio"/> Under \$35,000 <input type="radio"/> \$35,000 to \$49,999 <input type="radio"/> \$50,000 to \$74,999 <input type="radio"/> \$75,000 to \$99,999 <input type="radio"/> \$100,000 to \$124,999 <input type="radio"/> \$125,000 and above
Handiness *	<input type="radio"/> Do It Yourself <input type="radio"/> All thumbs <input type="radio"/> Saturday Helper <input type="radio"/> Professional

Figure 2-5 Annotated newuser.jsp Template - Shipping Address and Payment Information (Optional)

The Shipping Address region provides form fields for customers to enter a shipping address. The Same as Above checkbox allows customers to use the address they provided in the personal information section as their shipping address.

mail.

Shipping Address

Same as above

Address *

Address 2

City *

State / Province (Required for U.S. and Canadian addresses)

Zip/Postal Code *

Country *

Demographic Options

Figure 2-6 Annotated newuser.jsp Template - Account Information

The Payment Information region provides form fields for credit card information. The information requested in this region is optional. The Account Information region provides form fields for username and password.

Payment Information (Optional)

Credit card type *

Name on card *

Card number *

Expiration date (mm/yyyy) *

Card billing address *

Address 2

City *

State / Province (Required for U.S. and Canadian addresses)

Zip/Postal Code *

Country *

Username and Password

Username *

Password *

Repeat password to confirm *

Fields marked with (*) are required.

The Account Information region provides form fields for username and password.

The footer is created by importing the footer.inc template.

Built On Copyright © 1999-2001, BEA Systems Inc.

Note: The maximum number of characters allowed for usernames and passwords is set to 50. There are no other restrictions. If you want to impose other restrictions, such as required character types, disallowed character types, or length requirements, you must set up your own Input Processor.

Location in the WebLogic Commerce Server Directory Structure

You can find the `newuser.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\register\newuser.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/register/newuser.jsp (UNIX)
```

Tag Library Imports

The `newuser.jsp` template makes use of the Webflow JSP tags. Therefore, the template includes the following JSP tag library:

```
<%@ taglib uri="weblogic.tld" prefix="webflow" %>
```

Note: For more information about the Webflow JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

This file resides in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `newuser.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

The page prior to `newuser.jsp` is the customer login page (`login.jsp`). If no errors are found after a customer enters their initial profile information, customers are auto-logged in and forwarded to a welcome page where they can select from the various links to continue shopping or check out (`newusercreation.jsp`). If errors are found, the `newuser.jsp` is reloaded with an appropriate message next to the invalid form fields.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `newuser.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `states.inc`, which contains a list of states as part of an address. The state is only required for U.S. citizens. The import call is:

```
<%@ include file="/commerce/includes/states.inc" %>
```


- `countries.inc`, which contains a list of countries as part of an address. The import call is:
`<%@ include file="/commerce/includes/countries.inc" %>`
- `newaddresstemplate.inc`, which also uses the `states.inc` and the `countries.inc` templates.
- `newdemographictemplate.inc`, which contains formatting for the demographic data.
- `newcctemplate.inc`, which also uses the `states.inc` and the `countries.inc` templates.
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:
`<%@ include file="/commerce/includes/footer.inc" %>`

About the Included `newaddresstemplate.inc` Template

The `newaddresstemplate.inc` template provides a standardized format for both the form field presentation and error handling included in all JSP templates that prompt customers for a shipping address, except `addaddress.jsp`. The form fields are organized in a table, and upon form submission, the Input Processors associated with the `newaddresstemplate.inc` template will validate the form to ensure that all required fields contain values. If errors are detected, the `newaddresstemplate.inc` template will be redisplayed, with an error message at the top and the invalid field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

The behavior described above is accomplished on the `newaddresstemplate.inc` template using the `getValidatedValue` JSP tag, as shown in Listing 2-1.

Listing 2-1 Use of the `getValidatedValue` JSP Tag on `newaddresstemplate.inc`

```
<!-- begin table with customer's shipping address information -->
<table width="90%" border="0">

  <tr>
    <td width="26%"><webflow:getValidatedValue
      fieldName="<%=HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1%>"
      fieldValue="customerShippingAddress1" fieldStatus="status" validColor="black"
      invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />
```

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```
<div class="tabletext"><font color=<%= fontColor %>><b>Address
  </b></font></div>

  </td>
  <td width="74%">
    <input type="text"
name="<%=HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1%>"
value="<%=customerShippingAddress1%>" size="30" maxlength="30">
  *</td>
</tr>
.
.
.
</table>
```

Notes: For more information about the `getValidatedValue` JSP tag, see the [Guide to Managing Presentation and Business Logic:Using Webflow and Pipeline](#).

About the Included `newcctemplate.inc` Template

The `newcctemplate.inc` template provides a standardized format for both the form presentation and error handling in all JSP templates that prompt customers for credit card/payment information. The form fields are organized in a table, and upon form submission, the Input Processors associated with the `newcctemplate.inc` template will validate the form to ensure that all required fields contain values. If errors are detected, the `newcctemplate.inc` template will be redisplayed, with an error message at the top and the invalid field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

The behavior described above is accomplished on the `newcctemplate.inc` template using the `getValidatedValue` JSP tag, as shown in Listing 2-2.

Listing 2-2 Use of the `getValidatedValue` JSP Tag on `newcctemplate.inc`

```
<table>
.
.
.

<td width="27%"><webflow:getValidatedValue
fieldName="<%=HttpRequestConstants.CUSTOMER_CREDITCARD HOLDER%>"
fieldValue="customerCreditCardHolder" fieldStatus="status" validColor="black"
```

```

invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />

        <div class="tabletext"><font color=<%= fontColor %>>
            <b>Name on card</b></font></div>
        </td>
        <td width="73%">
            <input type="text"
name="<%=HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER%>"
value="<%=customerCreditCardHolder%>" size="30" maxlength="50">
            * </td>

.
.
.
</table>

```

Notes: For more information about the `getValidatedValue` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

About the Included `newdemographictemplate.inc` Template

The `newdemographictemplate.inc` template provides a standardized format for both the form presentation and error handling in all JSP templates that prompt customers for demographic information. The radio buttons are organized in a table, and upon form submission, the Input Processors associated with the `newdemographictemplate.inc` template will validate the form to ensure that all required fields contain values. If errors are detected, the `newdemographictemplate.inc` template will be redisplayed, with an error message at the top of the including page and the invalid field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

The behavior described above is accomplished on the `newdemographictemplate.inc` template using the `getValidatedValue` JSP tag, as shown in Listing 2-3.

Listing 2-3 Use of the `getValidatedValue` JSP Tag on `newdemographictemplate.inc`

```

<webflow:getValidatedValue fieldName="<%=HttpRequestConstants.CUSTOMER_GENDER%>"
fieldDefaultValue="<%= (String)currentPropertyValue%>" fieldValue="genderValue"

```

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```
fieldStatus="status" validColor="black" invalidColor="red"
unspecifiedColor="black" fieldColor="fontColor" />

    <td width="26%"><div class="tabletext"><b><font color=<%= fontColor %>>
Gender*</font></b></div></td>

    <td width="74%">

<%// get the property values for Gender
propertyBean.setPropertyName(GENDER);
property = propertyBean.getPropertyObject();
if(property == null || property.getRestrictedValues() == null)
arr = new Object[0];
else arr = property.getRestrictedValues().toArray();%>

<table width="100%" border="0" cellpadding="0"
cellspacing="0"><es:forEachInArray id="valueObject" array="<%= arr %>"
type="Object">

    <tr>
        <td width="4%"><input type="radio" name="
        <%= HttpRequestConstants.CUSTOMER_GENDER %>" value="<%= valueObject %>"
        <% if ( valueObject.equals(genderValue) ) { %>CHECKED<% } %></td>

        <td><%= valueObject %></td>
    </tr>
</es:forEachInArray>

</table>
```

Notes: For more information about the `getValidatedValue` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Events

The `newuser.jsp` template presents a customer with two buttons, each of which is considered an event. These events trigger a particular response in the default Webflow that allows customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 2-3 provides information about these events and the business logic they invoke.

Table 2-3 newuser.jsp Events

Event	Webflow Response(s)
button(cancel)	GetCategoryIP GetTopCategories Pipeline
button(save)	CustomerProfileIP CustomerProfile Pipeline

Table 2-4 briefly describes each of the Pipelines from Table 2-3, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 2-43.

Table 2-4 newuser.jsp Associated Pipelines

Pipeline	Description
CustomerProfile	Contains EncryptedCreditCardPC and RegisterUserPC, and is transactional.

Dynamic Data Display

No dynamic data is presented on the `newuser.jsp` template.

Form Field Specification

The primary purpose of the `newuser.jsp` template is to allow customers to enter their profile information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `newuser.jsp` template, most of which are imported from other templates, and a description for each of these form fields are listed in Table 2-5.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the `newuser.jsp` template.

Table 2-5 newuser.jsp Form Fields

Parameter Name	Type	Description
“event”	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
“origin”	Hidden	The name of the current page (newuser.jsp), used by the Webflow.
HttpRequestConstants.CUSTOMER_FIRST_NAME	Textbox	The customer’s first name.
HttpRequestConstants.CUSTOMER_MIDDLE_NAME	Textbox	The customer’s middle initial.
HttpRequestConstants.CUSTOMER_LAST_NAME	Textbox	The customer’s last name.
HttpRequestConstants.CUSTOMER_ADDRESS1	Textbox	The first line in the customer’s street address.
HttpRequestConstants.CUSTOMER_ADDRESS2	Textbox	The second line in the customer’s street address.
HttpRequestConstants.CUSTOMER_CITY	Textbox	The city in the customer’s address.
HttpRequestConstants.CUSTOMER_STATE	Listbox	The state in the customer’s address.
HttpRequestConstants.CUSTOMER_ZIPCODE	Textbox	The zip code in the customer’s address.
HttpRequestConstants.CUSTOMER_COUNTRY	Listbox	The country in the customer’s address.
HttpRequestConstants.CUSTOMER_HOME_PHONE	Textbox	The customer’s home phone number.
HttpRequestConstants.CUSTOMER_BUSINESS_PHONE	Textbox	The customer’s business phone number.
HttpRequestConstants.CUSTOMER_EMAIL	Textbox	The customer’s e-mail address.

Table 2-5 newuser.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_EMAIL_OPT_IN	Checkbox	Indicates that the customer wants to receive promotional items via e-mail.
HttpRequestConstants. SAME_AS_ABOVE	Checkbox	Indicates that the customer's shipping address is the same as the contact address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS1	Textbox	The first line in the customer's shipping address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS2	Textbox	The second line in the customer's shipping address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_SHIPPING_CITY	Textbox	The city in the customer's shipping address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_SHIPPING_STATE	Listbox	The state in the customer's shipping address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_SHIPPING_ZIPCODE	Textbox	The zip/postal code in the customer's shipping address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_SHIPPING_COUNTRY	Listbox	The country in the customer's shipping address. Imported from <code>newaddresstemplate.inc</code> .
HttpRequestConstants. CUSTOMER_GENDER	Radio buttons	Identifies the customer as male or female. Imported from <code>newdemographictemplate.inc</code> .
HttpRequestConstants. CUSTOMER_DATE_OF_BIRTH	Textboxes	The customer's date of birth. Imported from <code>newdemographictemplate.inc</code> .
HttpRequestConstants. CUSTOMER_OCCUPATION	Radio buttons	The customer's job description. Imported from <code>newdemographictemplate.inc</code> .
HttpRequestConstants. CUSTOMER_EMPLOYMENT_STATUS	Radio buttons	Identifies if the customer has a job at the time of registration. Imported from <code>newdemographictemplate.inc</code> .

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Table 2-5 newuser.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_MARITAL_STATUS	Radio buttons	Identifies the customer's marital status. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_EDUCATION_LEVEL	Radio buttons	Identifies how much formal education the customer has completed. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_INCOME_RANGE	Radio buttons	Identifies the customer's yearly income. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_QUALITY	Radio buttons	Ranks customer from beginner to expert in using your product. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_TYPE	Listbox	The type of the customer's credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD HOLDER	Textbox	The name on the credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_NUMBER	Textbox	The number of the customer's credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_MONTH	Listbox	The month of the customer's credit card expiration date. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_YEAR	Listbox	The year of the customer's credit card expiration date. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS1	Textbox	The first line in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ ADDRESS2	Textbox	The second line in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_CITY	Textbox	The city in the customer's billing address. Imported from newcctemplate.inc.

Table 2-5 newuser.jsp Form Fields (Continued)

Parameter Name	Type	Description
<code>HttpServletRequestConstants.CUSTOMER_CREDITCARD_STATE</code>	Listbox	The state in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpServletRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE</code>	Textbox	The zip/postal code in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpServletRequestConstants.CUSTOMER_CREDITCARD_COUNTRY</code>	Listbox	The country in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpServletRequestConstants.USER_NAME</code>	Textbox	An identity chosen by the customer for login.
<code>HttpServletRequestConstants.PASSWORD</code>	Password	A password chosen by the customer for login.
<code>HttpServletRequestConstants.CONFIRM_PASSWORD</code>	Password	Confirmation of the password chosen by the customer for login.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpServletRequestConstants.USER_NAME %>`) for use in the JSP.

newusercreation.jsp Template

The `newusercreation.jsp` template (shown in Figure 2-7) informs a customer who has just created a new user profile that they have been logged in and that registration was successful. It also provides the customer with the opportunity to return to their shopping experience through several navigation options.

Sample Browser View

Figure 2-7 shows an annotated version of the `newusercreation.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 2-7 Annotated `newusercreation.jsp` Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

The footer is created by importing the `footer.inc` template.

The main body of the page indicates to the customer that registration and auto-login was successful. It also provides the customer with links to their shopping cart (`shoppingcart.jsp`), to continue shopping, to the checkout process (`shipping.jsp`), or to the `main.jsp` via the home link in the `header.inc`.

Now that the user has a profile and is logged in, the `leftside.inc` shows links to the customer's order history (`orderhistory.jsp`), payment history (`paymenthistory.jsp`), to their profile (`viewprofile.jsp`), or to logout.

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Notes: For a detailed description of the `main.jsp` template, see “[Product Catalog JSP Templates](#)” in the *Guide to Building a Product Catalog* book. For a detailed description of the `shoppingcart.jsp` and `shipping.jsp` templates, see “[Shopping Cart Management Services](#)” or “[Shipping Services](#)” in the *Guide to Managing Purchases and Processing Orders* book.

The option to proceed to checkout is only provided on the `newusercreation.jsp` template if there are items in the customer’s shopping cart. Otherwise, the `newusercreation.jsp` template will leave out this option as shown in Figure 2-8.

Figure 2-8 newusercreation.jsp - Without Checkout Option

The screenshot displays the `newusercreation.jsp` page. At the top, there is a navigation bar with the BEA logo, a menu for "About Current Template: newusercreation.jsp" (including "Template Index" and "Administration"), and a red banner for "BEA WebLogic Commerce Server 3.5 Commerce Templates". Below the navigation bar is a promotional message: "You are now in a campaign that uses both your classification as a new user and your gender to target a specific message to you (notice the ad below). Store data indicates that women buy 75% of all Saws and Men buy 63% of all Drills. Click the ad below." A "Home" link is visible in the breadcrumb area. The main content area features a "Congratulations" message: "Welcome Demo451, you have successfully registered and logged in." Below this, it asks the user to "Please select one of the following actions:" with two buttons: "View shopping cart" and "Continue shopping". A note states: "Note that the check out link is not available." On the left side, there is a sidebar with "Welcome Demo Customer" (with links for "View Profile" and "Logout"), "View History" (with links for "Orders" and "Payments"), and a promotional ad for a drill: "Buy a Drill Today & Redeem Your \$10!". At the bottom of the sidebar, it says "Catalog data provided courtesy of TDI Register, where supply meets demand." The footer contains the BEA logo, "Built On" text, and copyright information: "Copyright © 1999-2001, BEA Systems Inc."

Location in the WebLogic Commerce Server Directory Structure

You can find the `newusercreation.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\newusercreation.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/newusercreation.jsp (UNIX)
```

Tag Library Imports

The `newusercreation.jsp` template uses Pipeline JSP tags. Therefore, the template includes the following JSP tag library:

```
<%@ taglib uri="pipeline.tld" prefix="pipeline" %>
```

Note: For more information about the Pipeline JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

This file resides in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `newusercreation.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.ebusiness.shoppingcart.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

Customers arrive at the `newusercreation.jsp` template when they have successfully created a new user profile and the auto-login using JAAS (Java Authentication and Authorization Service) has completed. If the customer creates a new profile, but the

auto-login does not complete successfully, the customer is routed to the `login.jsp` template and will not see the `newusercreation.jsp` template. After manual login, the customer is routed to the `main.jsp` template.

Note: If a customer had created a profile on a previous visit and logged in using the `login.jsp` template, the customer would simply be taken to the protected page the customer was trying to access.

From the `newusercreation.jsp` template, the customer can return to their shopping cart (`shoppingcart.jsp`), continue shopping, continue to the checkout process (`shipping.jsp`), view their order history (`orderhistory.jsp`), view their profile (`viewprofile.jsp`), view their payment history (`paymenthistory.jsp`), logout, or return to the main catalog page (`main.jsp`).

Note: The option to proceed to checkout is only provided on the `newusercreation.jsp` template if there are items in the customer's shopping cart.

For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `newusercreation.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

Every time a customer clicks a button to view more detail about an order, it is considered an event. Each event triggers a particular response in the default Webflow that allows them to continue. While this response can be to load another JSP, it is usually the case that an Input Processor and/or Pipeline is invoked first. Table 2-6 provides information about these events and the business logic they invoke.

Table 2-6 newusercreation.jsp Events

Event	Webflow Response(s)
<code>link(shoppingcart)</code>	<code>InitShoppingCartIP</code>
<code>button(checkout)</code>	<code>InitShippingMethodListIP</code>
<code>link(home)</code>	<code>GetTopCategoriesIP</code> <code>GetTopCategories Pipeline</code>

Note: For more information about the `GetTopCategoriesIP` and `GetTopCategories Pipeline`, see the [Guide to Building a Product Catalog](#).

Dynamic Data Display

One purpose of the `newusercreation.jsp` template is to display navigation options that allow customers to continue their shopping experience after logging in. However, if there are no items in the customer's shopping cart, then checkout is not an option that should be displayed. The decision of whether or not to display this option is accomplished on `newusercreation.jsp` using a combination of Pipeline JSP tags and accessor methods/attributes.

First, the `getPipelineProperty` JSP tag retrieves the `SHOPPING_CART` attribute from the Pipeline session. Table 2-7 provides more detailed information on this attribute.

Table 2-7 newusercreation.jsp Pipeline Session Attributes

Attribute	Type	Description
PipelineSessionConstant. SHOPPING_CART	com.beasys.commerce.ebusiness. shoppingcart.ShoppingCart	The currently active shopping cart.

Listing 2-4 illustrates how this attribute is retrieved from the Pipeline session using the `getPipelineProperty` JSP tag.

Listing 2-4 Retrieving the Shopping Cart Attribute

```
<pipeline:getPipelineProperty
  propertyName="<%=PipelineSessionConstants.SHOPPING_CART%>"
  returnName="shoppingCart"
  returnType="com.beasys.commerce.ebusiness.shoppingcart.
ShoppingCart" />
```

Note: For more information on the `getPipelineProperty` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 2-8 provides more detailed information about these methods/attributes for `shoppingCart`.

Table 2-8 shoppingCart Accessor Methods/Attributes

Method/Attribute	Description
<code>isEmpty()</code>	Returns <code>true</code> if the customer's shopping cart is empty.

The presence of items in the shopping cart is evaluated using this method in a Java scriptlet, as shown in Listing 2-5.

Listing 2-5 Using Accessor Methods/Attributes Within newusercreation.jsp Java Scriptlets

```
<% if (shoppingCart != null && shoppingCart.isEmpty() == false) { %>
  <a href="
<%=WebflowJSPHelper.createWebflowURL(pageContext,"newusercreation.jsp","button(
checkout)", true)%>">%>">
" border="0" vspace="2"
hspace="3"></a> &nbsp; &nbsp; &nbsp;
<% } %>
```

Form Field Specification

No form fields are used in the newusercreation.jsp template.

newuserforward.jsp Template

The `newuserforward.jsp` template is used to direct unregistered users to the `newuser.jsp` because dynamic URIs are not supported in placeholders. This page is accessed when an unregistered user clicks an ad placeholder that contains a static URI. The `newuserforward.jsp` template then forwards the user to `newuser.jsp`. Additionally, the `newuserforward.jsp` bridges the transition from a non-secure to a secure connection (http to https).

Because this page is never seen by the end user and uses no includes, instead of a figure, the code for this page is shown in Listing 2-6.

Location in the WebLogic Commerce Server Directory Structure

You can find the `newuser.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\newuserforward.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/newuserforward.jsp (UNIX)
```

Tag Library Imports

The `newuserforward.jsp` template does not use any tag libraries.

Java Package Imports

The `newuserforward.jsp` template uses Java classes in the following package and therefore includes the import statement:

```
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

The page prior to `newuserforward.jsp` can be any page that an anonymous user can access. However, this template is only needed if an unregistered user clicks the ad placeholder that prompts them to register. The static URI in the placeholder accesses the `newuserforward.jsp` which then forwards the user to the `newuser.jsp` template.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

No JSP templates are included in the `newuserforward.jsp` template.

Events

The `newuserforward.jsp` template has one event. This event triggers a particular response in the default Webflow that allows customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 2-9 provides information about this event and the business logic it invokes.

Table 2-9 newuserforward.jsp Events

Event	Webflow Response(s)
<code>button(createUser)</code>	<code>newuser.jsp</code>

Listing 2-6 newuserforward.jsp Code

```
<!-- Copyright (c) 2001 by BEA Systems, Inc. All Rights Reserved. -->
<%@ page import="com.beasys.commerce.webflow.*" %>

<!-- This page is necessary because dynamic URI's are not      -->
<!-- supported in placeholders. This page is accessed via a   -->
<!-- static URI from an example placeholder that encourages new -->
<!-- users to register. This pages then forwards the user via -->
<!-- Webflow to the registration page, which is an SSL       -->
<!-- protected resource.                                     -->
```

```
<% String s = WebflowJSPHelper.createWebflowURL(pageContext, "login.jsp",  
"button(createUser)", true); %>  
<% response.sendRedirect(s) ; %>
```

Dynamic Data Display

No dynamic data is presented on the `newuserforward.jsp` template.

Form Field Specification

No form fields are used in the `newuserforward.jsp` template.

usercreationforward.jsp Template

The `usercreationforward.jsp` template is used to forward new users to the `newusercreation.jsp` template after the registration and auto-login process using JAAS is completed by the Webflow. Once the user is created, the request must be flushed and the `usercreationforward.jsp` template allows that to happen.

Because this page is never seen by the end user and uses no includes, instead of a figure, the code for this page is shown in Listing 2-7.

Location in the WebLogic Commerce Server Directory Structure

You can find the `newuser.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\usercreationforward.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/usercreationforward.jsp (UNIX)
```

Tag Library Imports

The `usercreationforward.jsp` template does not use any tag libraries.

Java Package Imports

The `usercreationforward.jsp` template uses Java classes in the following package and therefore includes the import statement:

```
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

The page prior to `usercreationforward.jsp` is the `newuser.jsp` template. When new users save their profiles, they are auto-logged in using JAAS and if the login is successful, because the old request must be flushed, the `usercreationforward.jsp` is needed to redirect the user to the `newusercreation.jsp` template.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

No JSP templates are included in the `usercreationforward.jsp` template.

Events

The `usercreationforward.jsp` template has one event. This event triggers a particular response in the default Webflow that allows customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 2-10 provides information about this event and the business logic it invokes.

Table 2-10 `usercreationforward.jsp` Events

Event	Webflow Response(s)
<code>forward(usercreation)</code>	<code>newusercreation.jsp</code>

Listing 2-7 `usercreationforward.jsp` Code

```
<!-- Copyright (c) 2001 by BEA Systems, Inc. All Rights Reserved. -->
<%@ page import="com.beasys.commerce.webflow.*" %>

<!-- We need to forward to the newusercreation page after creating the -->
<!-- user. The reason to do the redirect is because the request does -->
<!-- not contain the user information unless you do a redirect via the -->
<!-- response object to the proper url. So this page essentially does -->
<!-- the job of creating a new request which would have the authenticated -->
<!-- user's information so that the campaigns can be fired up -->

<% String s = WebflowJSPHelper.createWebflowURL(pageContext,
"usercreationforward.jsp", "forward(usercreation)", true); %>
<% response.sendRedirect(s) ; %>
```

Dynamic Data Display

No dynamic data is presented on the `newuserforward.jsp` template.

Form Field Specification

No form fields are used in the `usercreationforward.jsp` template.

Input Processors

This section provides a brief description of each Input Processor associated with the Customer Login and Registration Services JSP template(s).

Note: For more information about the `GetTopCategoriesIP` Input Processor, see the [Guide to Building a Product Catalog](#).

CustomerProfileIP

Class Name	<code>com.beasys.commerce.ebusiness.customer.webflow.CustomerProfileIP</code>
Description	Processes the input of <code>newuser.jsp</code> and allows the customer to store their profile. Creates and places a <code>CustomerValue</code> object into the Pipeline session.
Required HttpServletRequest Parameters (Personal Information)	<code>HttpRequestConstants.CUSTOMER_FIRST_NAME</code> <code>HttpRequestConstants.CUSTOMER_MIDDLE_NAME</code> <code>HttpRequestConstants.CUSTOMER_LAST_NAME</code> <code>HttpRequestConstants.CUSTOMER_ADDRESS1</code> <code>HttpRequestConstants.CUSTOMER_ADDRESS2</code> <code>HttpRequestConstants.CUSTOMER_CITY</code> <code>HttpRequestConstants.CUSTOMER_STATE</code> <code>HttpRequestConstants.CUSTOMER_ZIPCODE</code> <code>HttpRequestConstants.CUSTOMER_COUNTRY</code> <code>HttpRequestConstants.CUSTOMER_HOME_PHONE</code> <code>HttpRequestConstants.CUSTOMER_BUSINESS_PHONE</code> <code>HttpRequestConstants.CUSTOMER_EMAIL</code> <code>HttpRequestConstants.CUSTOMER_EMAIL_OPT_IN</code> (code location: <code>newuser.jsp</code> template.)

2 Customer Registration and Login Services

Required HttpServletRequest Parameters (Demographic Information)	<code>HttpRequestConstants.CUSTOMER_INCOME_RANGE</code> <code>HttpRequestConstants.CUSTOMER_EDUCATION_LEVEL</code> <code>HttpRequestConstants.CUSTOMER_DATE_OF_BIRTH</code> <code>HttpRequestConstants.CUSTOMER_GENDER</code> <code>HttpRequestConstants.CUSTOMER_OCCUPATION</code> <code>HttpRequestConstants.CUSTOMER_MARITAL_STATUS</code> <code>HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS</code> <code>HttpRequestConstants.CUSTOMER_QUALITY</code> (code location: <code>newdemographictemplate.inc</code> template.)
Required HttpServletRequest Parameters (Shipping Information)	<code>HttpRequestConstants.SAME_AS_ABOVE</code> (code location: <code>newuser.jsp</code> template.) <hr/> <code>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1</code> <code>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2</code> <code>HttpRequestConstants.CUSTOMER_SHIPPING_CITY</code> <code>HttpRequestConstants.CUSTOMER_SHIPPING_STATE</code> <code>HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE</code> <code>HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY</code> <code>HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS</code> (code location: <code>newaddressstemplate.inc</code> template.)
HttpServletRequest Parameters (Payment Information)	<code>HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD HOLDER</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_CITY</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_STATE</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY</code> (code location: <code>newccstemplate.inc</code> template.)
Required HttpServletRequest Parameters (Account Information)	<code>HttpRequestConstants.USER_NAME</code> <code>HttpRequestConstants.PASSWORD</code> <code>HttpRequestConstants.CONFIRM_PASSWORD</code> (code location: <code>newuser.jsp</code> template.)

Required Pipeline Session Attributes	None
Updated Pipeline Session Attributes	PipelineSessionConstants.CUSTOMER PipelineSessionConstants.PASSWORD PipelineSessionConstants.CREDITCARD_KEY (only if customer provides a credit card update).
Removed Pipeline Session Attributes	None
Validation	Checks that the required fields contain values and checks that the credit card number is not less than 16 digits (15 digits for AMEX type). Also checks that the password and confirm password fields contain matching values.
Exceptions	InvalidInputException, thrown when required fields are empty or credit card number is less than 16 digits (15 digits for AMEX type).

LoginCustomerIP

Class Name	com.beasys.commerce.ebusiness.customer.webflow.LoginCustomerIP
Description	Processes the input of login.jsp and allows the customer to access the secure pages of the site. Creates and places a CustomerValue object into the Pipeline session.
Required HttpServletRequest Parameters	None
Required Pipeline Session Attributes	PipelineSessionConstants.CUSTOMER PipelineSessionConstants.PASSWORD PipelineSessionConstants.CREDITCARD_KEY (only if the customer provides a credit card update).

2 Customer Registration and Login Services

Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	<code>PipelineSessionConstants.PASSWORD</code>
Validation	Verifies that the username and password are correct.
Exceptions	<code>InvalidInputException</code> , thrown if either the username or password is invalid. <code>ProcessingException</code> , thrown if the username is invalid or cannot get authentication.

Pipeline Components

This section provides a brief description of each Pipeline component associated with the Customer Login and Registration Services JSP template(s).

Note: Some Pipeline components extend other, base Pipeline components. For more information on the base classes, see the [Javadoc](#).

RegisterUserPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.RegisterUserPC</code>
Description	Retrieves the <code>CustomerValue</code> object and password from the Pipeline session, and creates a <code>CUSTOMER</code> attribute.
Contained in	CustomerProfile Pipeline
Required Pipeline Session Attributes	<code>PipelineSessionConstants.CUSTOMER</code> <code>PipelineSessionConstants.PASSWORD</code>
Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	<code>PipelineSessionConstants.PASSWORD</code>
Type	Java class
JNDI Name	None
Exceptions	<code>PipelineFatalException</code> , thrown when the Pipeline component cannot create the user.

EncryptCreditCardPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.EncryptCreditCardPC</code>
Description	Uses the <code>CREDITCARD_KEY</code> object to retrieve a customer credit card, encrypts the credit card number, and then adds the modified credit card back to the <code>PipelineSession CustomerValue</code> attribute.
Contained in	CustomerProfile Pipeline
Required Pipeline Session Attributes	<code>PipelineSessionConstants.CREDITCARD_KEY</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.CUSTOMER</code>
Removed Pipeline Session Attributes	<code>PipelineSessionConstants.CREDITCARD_KEY</code>
Type	Java class
JNDI Name	None
Exceptions	<code>PipelineFatalException</code> , thrown when the Pipeline component cannot find the user in the Pipeline session or the <code>creditcard_key</code> is invalid or the encryption did not complete successfully.

3 Customer Profile Services

Customers who have registered with your e-commerce site may, from time to time, change the information stored in their profile. For example, customers may want to send a shipment to a different address, or use a different credit card. To help you meet your customers' needs, the Registering Customers and Managing Customer services provide you with an implementation of these Customer Profile Services. This topic describes the pages that allow registered customers to modify various aspects of their customer profile.

This topic includes the following sections:

- JavaServer Pages (JSPs)
 - viewprofile.jsp Template
 - editprofile.jsp Template
 - profilenewaddress.jsp Template
 - profileeditaddress.jsp Template
 - profilenewcc.jsp Template
 - profileeditcc.jsp Template
 - changepassword.jsp Template
 - editdemographics.jsp Template
- Input Processors
 - DeleteCreditCardIP
 - DeleteShippingAddressIP

- UpdateAccountInfoIP
- UpdateBasicInfoIP
- UpdateDemographicInfoIP
- UpdatePaymentInfoIP
- UpdateShippingInfoIP
- Pipeline Components
 - UpdateBasicInfoPC
 - UpdateDemographicInfoPC
 - UpdatePasswordPC
 - UpdatePaymentInfoPC
 - UpdateShippingInfoPC

JavaServer Pages (JSPs)

The Registering Customers and Managing Customer services contain a number of JavaServer Pages (JSPs) that allow customers to view or update their stored profile. Remember, you can always use these templates for your Web site, or you can adapt them to meet your specific needs. This section describes each of these pages in detail.

Note: For a description of the complete set of JSPs used in the WebLogic Commerce Server Web application and a listing of their locations in the directory structure, see the “[Summary of the JSP Templates](#)” documentation.

viewprofile.jsp Template

The `viewprofile.jsp` template (shown in Figure 3-1) allows a registered customer to view their existing profile information. It displays the existing information in five categories: personal information, shipping addresses, credit cards, username and password, and demographic information. There are options in each category for updating, deleting, or adding information.

Sample Browser View

Figure 3-1 shows an annotated version of the `viewprofile.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-1 Annotated viewprofile.jsp Template

The Commerce Templates header (admin.inc) contains useful information for the benefit of you and your development team.

The page header is created by importing the header.inc template.

The left column is created by importing the leftside.inc template.

The Personal Information region displays the customer's existing personal information using the editprofile.jsp template.

The Shipping Address region displays any shipping addresses the customer stored as part of their customer profile.

The Payment Information region displays the customer's existing credit card information.

The Account Information region displays the customer's current username.

The Demographic Information region displays the customer's demographic information using the editdemographics.jsp template.

The footer is created by importing the footer.inc template.

BEA WebLogic Commerce Server 3.5
Commerce Templates

About Current Template: **viewprofile.jsp**

Template Index Administration

Your Logo Here

Store your stuff in our **Storage Boxes!**

[Home](#)

Welcome **Demo Customer**
[View Profile](#)
[Logout](#)

Demo Customer's Profile

Contact Info [Update](#)

Name Demo Customer

Address
One Winthrop Square
Boston
MA 80237
United States

Home Phone 617-555-5555

Business Phone 708-555-5555

Email Address democustomer@bea.com

OK to E-mail? Yes, I want to be offered specials and notified of discounts. Please send me promotional e-mail.

Shipping Addresses [Add address](#)

One Winthrop Square
Boston
MA 02110
United States [Update](#) [Remove](#)

One Main Street
Denver
CO 80212
United States [Update](#) [Remove](#)

Credit Cards [Add card](#)

Select an account on file to update or delete.

VISA-1111 [Update this card](#) [Remove](#)

User Name & Password [Update](#)

User Name democustomer

Demographic Data [Update](#)

Gender Female

Date of Birth October 8, 1948

Occupation Executive Management

Employment Status Employed

Marital Status Married

Education Level College Graduate

Income Range \$75,000 to \$99,999

Handiness Do It Yourselfer

Copyright © 1999-2001,
[BEA Systems Inc.](#)

Built On

See Our Large Selection of Saws Here!

Catalog data provided courtesy of [TPN Register](#), where supply meets demand.

Location in the WebLogic Commerce Server Directory Structure

You can find the `viewprofile.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:


```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\
commerce\user\viewprofile.jsp (Windows)
```

```
%WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/
commerce/user/viewprofile.jsp (UNIX)
```

Tag Library Imports

The `viewprofile.jsp` template uses existing WebLogic Server JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<@ taglib uri="weblogic.tld" prefix="wl" %>
<@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information on the WebLogic Server JSP tags or the WebLogic Personalization Server's User Management JSP tags, see [“JSP Tag Reference”](#) in the *BEA WebLogic Personalization Server* documentation.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\
WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The `viewprofile.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<@ page import="javax.servlet.*" %>
<@ page import="javax.servlet.http.*" %>
<@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<@ page import="com.beasys.commerce.axiom.contact.*" %>
<@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<@ page import="com.beasys.commerce.webflow.*" %>
<@ page import="java.text.DateFormat" %>
```

Location in Default Webflow

If the customer is not logged in, the page prior to the `viewprofile.jsp` template is the customer login page (`login.jsp`). If the customer is already logged in, the page prior to the `viewprofile.jsp` template is any page from which the customer clicks the View Profile button. Based on what the customer decides to do after viewing their profile, the next page could be any of the following:

- `editprofile.jsp`, which allows customers to edit their personal information, including their name, contact address, and phone numbers,
- `editdemographics.jsp`, which allows customers to edit their demographic information,
- `profilenewaddress.jsp`, which allows customers to add a new shipping address,
- `profileeditaddress.jsp`, which allows customers to edit a shipping address,
- `profilenewcc.jsp`, which allows customers to add a new credit card to the profile,
- `profileeditcc.jsp`, which allows customers to edit information about an existing credit card, or
- `changepassword.jsp`, which allows customers to change their account password.

Each of these pages are described in subsequent sections of this document.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `viewprofile.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.

- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:
`<%@ include file="/commerce/includes/stylesheet.inc" %>`
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:
`<%@ include file="/commerce/includes/header.inc" %>`
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:
`<%@ include file="/commerce/includes/leftside.inc" %>`
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:
`<%@ include file="/commerce/includes/footer.inc" %>`

Events

The `viewprofile.jsp` template presents a customer with several buttons, each of which is considered an event. These events trigger a particular response in the default Webflow that allow customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-1 provides information about these events and the business logic they invoke.

Table 3-1 viewprofile.jsp Events

Event	Web Flow Response(s)
<code>button(updateBasicInfo)</code>	No business logic required. Loads <code>editprofile.jsp</code> .
<code>button(addNewShippingAddress)</code>	No business logic required. Loads <code>profilenewaddress.jsp</code> .
<code>button(updateShippingInfo)</code>	No business logic required. Loads <code>profileeditaddress.jsp</code> .
<code>button(deleteShippingAddress)</code>	<code>DeleteShippingAddressIP</code> <code>DeleteShippingAddressFromProfile Pipeline</code>
<code>button(updateDemographicInfo)</code>	No business logic required. Loads <code>editdemographics.jsp</code> .
<code>button(addNewCreditCard)</code>	No business logic required. Loads <code>profilenewcc.jsp</code> .

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Table 3-1 viewprofile.jsp Events (Continued)

Event	Web Flow Response(s)
button(updatePaymentInfo)	No business logic required. Loads profileeditcc.jsp.
button(deletePaymentInfo)	DeleteCreditCardIP DeleteCreditCard Pipeline
button(changePassword)	No business logic required. Loads changepassword.jsp.

Table 3-2 briefly describes each of the Pipelines from Table 3-1, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-2 viewprofile.jsp Associated Pipelines

Pipeline	Description
DeleteShippingAddressFromProfile	Contains UpdateShippingInfoPC and is transactional.
DeleteCreditCard	Contains UpdatePaymentInfoPC and is transactional.

Dynamic Data Display

One purpose of the `viewprofile.jsp` template is to display the profile information a customer had previously entered. This is accomplished on `viewprofile.jsp` using a combination of WebLogic Server JSP tags, the WebLogic Personalization Server’s User Management JSP tags, and accessor methods/attributes.

First, the `getProfile` JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-1.

Listing 3-1 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%">  
profileType="WLCS_Customer" />
```

Note: For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

Next, the `getProperty` JSP tag is used to obtain the customer's contact address, a collection of the customer's shipping addresses, and a collection of the customer's credit cards, which are then initialized with data from their corresponding objects. This is shown in Listing 3-2.

Listing 3-2 Obtaining the Customer's Profile Information

```
<um:getProperty propertyName="contactAddress"
  id="contactAddressObject" />

<um:getProperty propertyName="shippingAddressMap"
  id="shippingAddressMapObject" />

<um:getProperty propertyName="creditCardsMap"
  id="creditCardsMapObject" />

<%
    // Convert contactAddressObject and shippingAddressMapObject to
    the
    // correct types.
    Address contactAddress = (Address) contactAddressObject;
    Map shippingAddressMap = (Map) shippingAddressMapObject;
    Map creditCardsMap = (Map) creditCardsMapObject;

    // initialize shippingAddressMap
    if(shippingAddressMap == null) {
        shippingAddressMap = new HashMap();    }
%>
```

The data stored within these objects can now be accessed by calling accessor methods/attributes within Java scriptlets. Table 3-3 provides more detailed information about the methods/attributes for both the contact and shipping addresses. Table 3-4 provides information about the methods/attributes for the customer's credit cards.

Table 3-3 contactAddress/shippingAddress Accessor Methods/Attributes

Method/Attribute	Description
<code>getStreet1()</code>	The first line in the customer's contact or shipping street address.
<code>getStreet2()</code>	The second line in the customer's contact or shipping street address.
<code>getCity()</code>	The city in the customer's contact or shipping address.
<code>getCounty()</code>	The county in the customer's contact or shipping address.
<code>getState()</code>	The state in the customer's contact or shipping address.
<code>getPostalCode()</code>	The zip/postal code in the customer's contact or shipping address.
<code>getCountry()</code>	The country in the customer's contact or shipping address.

Table 3-4 creditCard Accessor Methods/Attributes

Method/Attribute	Description
<code>creditCard()</code>	The credit card name, consisting of the credit card type and 4 digits (for example, VISA-4111).

Listing 3-3 illustrates how these accessor methods/attributes are used within Java scriptlets.

Listing 3-3 Using Accessor Methods/Attributes Within viewprofile.jsp Java Scriptlets

```

<table>
.
.
.
<tr>
  <td align="right" valign="top" width="5%"><div
    class="tabletext"><b>Address</b></div></td>
  <td width="5">" width="5"
    height="5"></td>

  <td align="left"><div class="tabletext">
    <%=contactAddress.getStreet1()%><br>
    <% if(contactAddress.getStreet2().length() != 0) { %>
    <%=contactAddress.getStreet2()%><br> <% } %>
    <%=contactAddress.getCity()%>
    <br><%=contactAddress.getState()%> &nbsp;    
    <%=contactAddress.getPostalCode()%><br>
    <%=contactAddress.getCountry()%></div>

  </td>
</tr>
.
.
.
<wl:repeat
  set="<%=((Map)creditCardsMapObject).keySet().iterator()%>"
  id="creditCard" type="String" count="100000">

  <tr>
  <!-- Output the credit card name -->
    <td width="55%">
      <div class="tabletext"><b><%=creditCard%></b></div>
    <td>
    .
    .
    .
  </tr>

</wl:repeat>

</table>

```

Notes: For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

The `getPropertyAsString` JSP tag is used to directly obtain the customer's first and last name, the customer's home and business phone numbers, the customer's e-mail address, demographic information, and username and password. Listing 3-4 illustrates how to use the `getPropertyAsString` JSP tag to display the customer's name in the welcome message at the top of the `viewprofile.jsp` template.

Listing 3-4 Obtaining the Customer's Name

```
<p class="head1">
<um:getPropertyAsString propertySet="Customer Properties"
propertyName="firstName" />
<um:getPropertyAsString propertyName="lastName" />'s Profile
</p>
```

Form Field Specification

No form fields are used in the `viewprofile.jsp` template.

editprofile.jsp Template

The `editprofile.jsp` template (shown in Figure 3-2) allows a registered customer to update the personal information in their stored profile, which includes their name, address, home and business phone numbers, and e-mail address.

Sample Browser View

Figure 3-2 shows an annotated version of the `editprofile.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-2 Annotated editprofile.jsp Template

The Commerce Templates header (admin.inc) contains useful information for the benefit of you and your development team.

The page header is created by importing the header.inc template.

The left column is created by importing the leftside.inc template.

This region provides a series of form fields that allow customers to change their personal information.

The footer is created by importing the footer.inc template.

Location in the WebLogic Commerce Server Directory Structure

You can find the `editprofile.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\
commerce\user\editprofile.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/
commerce/user/editprofile.jsp (UNIX)
```

Tag Library Imports

The `editprofile.jsp` template uses existing WebLogic Server JSP tags and the WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
<%@ taglib uri="es.tld" prefix="es" %>
```

Note: For more information on the WebLogic Server JSP tags or the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\
WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The `editprofile.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.user.jsp.UserManagementJspPages*" %>
```

```
<%@ page import="com.beasys.commerce.foundation.property.PropertyMetaData*" %>
<%@ page import="java.util.*" %>
```

Location in Default Webflow

The page before `editprofile.jsp` is the page on which a customer can view their current profile (`viewprofile.jsp`). If there are no errors in the form submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, `editprofile.jsp` is reloaded with an appropriate error message.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included into the `editprofile.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `states.inc`, which contains a list of states as part of an address. The state is only required for U.S. citizens. The import call is:

```
<%@ include file="/commerce/includes/states.inc" %>
```
- `countries.inc`, which contains a list of countries as part of an address. The import call is:

```
<%@ include file="/commerce/includes/countries.inc" %>
```

- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The `editprofile.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-5 provides information about these events and the business logic they invoke.

Table 3-5 editprofile.jsp Events

Event	Webflow Response(s)
<code>button(back)</code>	No business logic required. Loads <code>viewprofile.jsp</code> .
<code>button(save)</code>	<code>UpdateBasicInfoIP</code> <code>EditBasicInfo Pipeline</code>

Table 3-6 briefly describes each of the Pipelines from Table 3-5, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-6 editprofile.jsp Associated Pipelines

Pipeline	Description
<code>EditBasicInfo</code>	Contains <code>UpdateBasicInfoIPC</code> and is transactional.

Dynamic Data Display

One purpose of the `editprofile.jsp` template is to display the profile information a customer had previously entered. This is accomplished on the `editprofile.jsp` template using a combination of WebLogic Server JSP tags, the WebLogic Personalization Server’s User Management JSP tags, and accessor methods/attributes.

First, the `getProfile` JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-5.

Listing 3-5 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
profileType="WLCS_Customer" />
```

Note: For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

Next, the `getProperty` JSP tag is used to obtain the customer's contact address, which is then initialized with data from the customer object, as shown in Listing 3-6.

Listing 3-6 Obtaining the Customer's Contact Address

```
<um:getProperty propertyName="contactAddress"
id="contactAddressObject" />
<% Address contactAddress = (Address) contactAddressObject; %>
```

The data stored within the `contactAddress` object can now be accessed by calling accessor methods/attributes within Java scriptlets. Table 3-7 provides more detailed information about the methods/attributes for the contact address.

Table 3-7 `contactAddress` Accessor Methods/Attributes

Method/Attribute	Description
<code>getStreet1()</code>	The first line in the customer's contact street address.
<code>getStreet2()</code>	The second line in the customer's contact street address.
<code>getCity()</code>	The city in the customer's contact address.
<code>getCounty()</code>	The county in the customer's contact address.
<code>getState()</code>	The state in the customer's contact address.
<code>getPostalCode()</code>	The zip/postal code in the customer's contact address.
<code>getCountry()</code>	The country in the customer's contact address.

Notes: The `getPropertyAsString` JSP tag is used to obtain the customer's first and last name, the customer's home and business phone numbers, the customer's e-mail address, demographic information, and username and password.

The `getProperty` JSP tag is used to obtain a value from the `EMAIL_OPT_IN` attribute. This attribute designates if the customer wants to receive promotional items via e-mail.

Listing 3-7 illustrates how to use the `getPropertyAsString` JSP tag to obtain the customer's last name.

Listing 3-7 Obtaining the Customer's Last Name

```
<um:getPropertyAsString propertyName="lastName" id="lastName" />
```

Listing 3-8 illustrates how these accessor methods/attributes are used within Java scriptlets to display existing data within the form fields.

Listing 3-8 Using Accessor Methods/Attributes Within `editprofile.jsp` Java Scriptlets

```
<table>
<tr>

<um:getPropertyAsString propertyName="lastName" id="lastName" />

<td>
<webflow:getValidatedValue
  fieldName="<%=HttpRequestConstants.CUSTOMER_LAST_NAME%>"
  fieldDefaultValue="<%= (String)lastName%>"
  fieldValue="customerLastName" fieldStatus="status" validColor="black"
  invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />

<div class="tabletext">
  <font color="<%= fontColor %>><b>Last name </b></font>
</div>
</td>

<td>
<input type="text" name="<%=HttpRequestConstants.CUSTOMER_LAST_NAME%>"
```

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```
        value="<%=customerLastName%>" maxlength="30">*
    </td>

</tr>

<tr>

    <td>
        <webflow:getValidatedValue
            fieldName="<%=HttpRequestConstants.CUSTOMER_ADDRESS1%>"
            fieldDefaultValue="<%=contactAddress.getStreet1()%>"
            fieldValue="customerAddress1" fieldStatus="status" validColor="black"
            invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />

        <div class="tabletext">
            <font color="<%= fontColor %>><b>Street address</b></font>
        </div>
    </td>

    <td>
        <input type="text" name="<%=HttpRequestConstants.CUSTOMER_ADDRESS1%>"
            value="<%=customerAddress1%>" maxlength="30">*
    </td>

</tr>
</table>
```

Form Field Specification

The primary purpose of the `editprofile.jsp` template is to allow customers to edit their profile information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `editprofile.jsp` template, and a description for each of these form fields are listed in Table 3-8.

Table 3-8 editprofile.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.

Table 3-8 editprofile.jsp Form Fields (Continued)

Parameter Name	Type	Description
"origin"	Hidden	The name of the current page (editprofile.jsp), used by the Webflow.
HttpRequestConstants.CUSTOMER_FIRST_NAME	Textbox	The customer's first name.
HttpRequestConstants.CUSTOMER_MIDDLE_NAME	Textbox	The customer's middle initial.
HttpRequestConstants.CUSTOMER_LAST_NAME	Textbox	The customer's last name.
HttpRequestConstants.CUSTOMER_ADDRESS1	Textbox	The first line in the customer's street address.
HttpRequestConstants.CUSTOMER_ADDRESS2	Textbox	The second line in the customer's street address.
HttpRequestConstants.CUSTOMER_CITY	Textbox	The city in the customer's address.
HttpRequestConstants.CUSTOMER_STATE	Listbox	The state in the customer's address.
HttpRequestConstants.CUSTOMER_ZIPCODE	Textbox	The zip code in the customer's address.
HttpRequestConstants.CUSTOMER_COUNTRY	Listbox	The country in the customer's address.
HttpRequestConstants.CUSTOMER_HOME_PHONE	Textbox	The customer's home phone number.
HttpRequestConstants.CUSTOMER_BUSINESS_PHONE	Textbox	The customer's business phone number.
HttpRequestConstants.CUSTOMER_EMAIL	Textbox	The customer's e-mail address.
HttpRequestConstants.CUSTOMER_EMAIL_OPT_IN	Checkbox	Indicates that the customer wants to receive promotional materials via e-mail.

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Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpRequestConstants.CUSTOMER_EMAIL %>`) for use in the JSP.

profilenewaddress.jsp Template

The `profilenewaddress.jsp` template (shown in Figure 3-3) allows a registered customer to add a new shipping address to their stored profile.

Sample Browser View

Figure 3-3 shows an annotated version of the `profilenewaddress.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-3 Annotated profilenewaddress.jsp Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

This region provides a series of form fields to add a new shipping address.

The footer is created by importing the `footer.inc` template.

BEA WebLogic Commerce Server 3.5
Commerce Templates

About Current Template: **profilenewaddress.jsp**

Template Index Administration

Your Logo Here

Store your stuff in our **Storage Boxes!**

[Home](#)

Welcome Demo Customer
[View Profile](#)
[Logout](#)

View History
[Orders](#)
[Payments](#)

See Our Large Selection of Saws **Here!**

Catalog data provided courtesy of [TPN Register](#), where supply meets demand.

New Shipping Address

Address *

Address 2

City *

State / Province (Required for U.S. and Canadian addresses)

Zip/Postal Code *

Country *

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Location in the WebLogic Commerce Server Directory Structure

You can find the `profilenewaddress.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\profilenewaddress.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/profilenewaddress.jsp (UNIX)
```

Tag Library Imports

The `profilenewaddress.jsp` template uses the Webflow and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="pipeline.tld" prefix="pipeline" %>  
<%@ taglib uri="webflow.tld" prefix="webflow" %>
```

Note: For more information about the Webflow and Pipeline JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `profilenewaddress.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>  
<%@ page import="javax.servlet.http.*" %>  
<%@ page import="com.beasys.commerce.webflow.*" %>  
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>  
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
```

```
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before `profilenewaddress.jsp` is the page on which a customer can view their current profile (`viewprofile.jsp`). If there are no errors in the form submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, `profilenewaddress.jsp` is reloaded with an appropriate error message.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `profilenewaddress.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `newaddresstemplate.inc`, which also uses the `states.inc` and the `countries.inc` templates. The template is described in “About the Included `newaddresstemplate.inc` Template” on page 2-17.
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The `profilenewaddress.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-9 provides information about these events and the business logic they invoke.

Table 3-9 `profilenewaddress.jsp` Events

Event	Webflow Response(s)
<code>button(back)</code>	No business logic required. Loads <code>viewprofile.jsp</code> .
<code>button(save)</code>	<code>UpdateShippingInfoIP</code> <code>ProfileNewAddress Pipeline</code>

Table 3-10 briefly describes each of the Pipelines from Table 3-9, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-10 `profilenewaddress.jsp` Associated Pipelines

Pipeline	Description
<code>ProfileNewAddress</code>	Contains <code>UpdateShippingInfoPC</code> and is transactional.

Dynamic Data Display

No dynamic data is presented on the `profilenewaddress.jsp` template.

Form Field Specification

The primary purpose of the `profilenewaddress.jsp` template is to allow customers to enter a new shipping address using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `profilenewaddress.jsp` template, most of which are imported from the `newaddresstemplate.jsp` file, and a description for each of these form fields are shown in Table 3-11.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the `profilenewaddress.jsp` template.

Table 3-11 `profilenewaddress.jsp` Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (<code>profilenewaddress.jsp</code>), used by the Webflow.
<code>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1</code>	Textbox	The first line in the customer's street address. Imported from <code>newaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2</code>	Textbox	The second line in the customer's street address. Imported from <code>newaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_CITY</code>	Textbox	The city in the customer's address. Imported from <code>newaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_STATE</code>	Listbox	The state in the customer's address. Imported from <code>newaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE</code>	Textbox	The zip code in the customer's address. Imported from <code>newaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY</code>	Listbox	The country in the customer's address. Imported from <code>newaddresstemplate.inc</code> .

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY %>`) for use in the JSP.

profileeditaddress.jsp Template

The `profileeditaddress.jsp` template (shown in Figure 3-4) allows a registered customer to update the shipping address information stored as part of their profile.

Sample Browser View

Figure 3-4 shows an annotated version of the `profileeditaddress.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-4 Annotated profileeditaddress.jsp Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

This region provides a series of form fields to update an existing shipping address.

The footer is created by importing the `footer.inc` template.

BEA WebLogic Commerce Server 3.5
Commerce Templates

About Current Template: **profileeditaddress.jsp**

Template Index Administration

Your Logo Here

Click here to see our full line of powerful **Routers!**

[Home](#)

Welcome Demo Customer
[View Profile](#)
[Logout](#)

Update Profile

Street address *

Address 2

City *

State / Province (Required for U.S. and Canadian addresses)

Postal/Zip Code *

Country *

View History
[Orders](#)
[Payments](#)

See Our Large Selection of Saws Here!

Catalog data provided courtesy of [TPN Register](#), where supply meets demand.

Built On Copyright © 1999-2001, [BEA Systems Inc.](#)

Location in WebLogic Commerce Server Directory Structure

You can find the `profileeditaddress.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\profileeditaddress.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/profileeditaddress.jsp (UNIX)
```

Tag Library Imports

The `profileeditaddress.jsp` template uses the Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>  
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation. For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `profileeditaddress.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>  
<%@ page import="javax.servlet.http.*" %>
```

```
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before the `profileeditaddress.jsp` template is the page that allows a customer to view their current profile (`viewprofile.jsp`). If there are no errors in the former submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, the `profileeditaddress.jsp` template is reloaded with an appropriate error message.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `profileeditaddress.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `editaddresstemplate.inc`, which also uses the `states.inc` and the `countries.inc` templates.

- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

About the Included `editadresstemplate.inc` Template

The `editadresstemplate.inc` template (included in all JSP templates that allow customers to edit a shipping address) provides a standardized format for both the form field presentation and error handling. The form fields are organized in a table, and upon form submission, the Input Processors associated with the `editadresstemplate.inc` template will validate the form to ensure that all required fields contain values. If errors are detected, the `editadresstemplate.inc` template will be redisplayed, with an error message at the top and the offending field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

Since the `editadresstemplate.inc` template allows customers to edit an existing shipping address, the form fields on the page are also prefilled with information previously entered by the customer.

The behavior described above is accomplished on the `editadresstemplate.inc` template using the `getValidatedValue` JSP tag and the accessor methods/attributes for `defaultShippingAddress`, as shown in Listing 3-9.

Listing 3-9 Use of the `getValidatedValue` JSP Tag and Accessor Methods/Attributes on `editadresstemplate.inc`

```
<table>
<tr>

<td>
  <webflow:getValidatedValue
    fieldName="<%=HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1%>"
    fieldDefaultValue="<%=defaultShippingAddress.getStreet1()%>"
    fieldValue="customerShippingAddress1" fieldStatus="status"
    validColor="black" invalidColor="red" unspecifiedColor="black"
    fieldColor="fontColor" />

  <div class="tabletext">
    <font color=<%= fontColor %>>Street address</font>
  </div>
</td>
```

3 Customer Profile Services

```
<td>
  <input type="text"
    name="<%=HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1%>"
    value="<%=customerShippingAddress1%>" maxlength="30">*
</td>
</tr>
</table>
```

Notes: For more information about the `getValidatedValue` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

For a list of the available accessor methods/attributes for `defaultShippingAddress`, see Table 3-14.

Events

The `profileeditaddress.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-12 provides information about these events and the business logic they invoke.

Table 3-12 `profileeditaddress.jsp` Events

Event	Webflow Response(s)
<code>button(back)</code>	No business logic required. Loads <code>viewprofile.jsp</code> .
<code>button(save)</code>	<code>UpdateShippingInfoIP</code> <code>ProfileEditAddress Pipeline</code>

Table 3-13 briefly describes each of the Pipelines from Table 3-12, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-13 profileeditaddress.jsp Associated Pipelines

Pipeline	Description
ProfileEditAddress	Contains UpdateShippingInfoPC and is transactional.

Dynamic Data Display

One purpose of the `profileeditaddress.jsp` template is to prepare the address information a customer had previously entered, so the `editaddresstemplate.inc` template can display this information in the address form fields. This is accomplished on the `profileeditaddress.jsp` template using a combination of Webflow JSP tags, the WebLogic Personalization Server's User Management JSP tags, and accessor methods/attributes.

First, the `getProfile` JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-10.

Listing 3-10 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
  profileType="WLCS_Customer" />
```

Note: For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

Next, the `getProperty` JSP tag is used to obtain a list of the customer's shipping addresses, which are then initialized with data from the customer object, as shown in Listing 3-11.

Listing 3-11 Obtaining the Customer's Shipping Address

```
<um:getProperty propertyName="shippingAddressMap"
  id="shippingAddressMapObject" />
```

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```
<% Map shippingAddressMap = (Map) shippingAddressMapObject;  
    String addressKey = request.getParameter(HttpRequestConstants.ADDRESS_KEY);  
    Address defaultShippingAddress = (Address) shippingAddressMap.get(addressKey);  
%>
```

The data stored within the `defaultShippingAddress` object can now be accessed by calling accessor methods/attributes within Java scriptlets. In this scenario, the scriptlets are in the `editaddressstemplate.inc`. Table 3-14 provides more detailed information about the methods/attributes for the default shipping address.

Table 3-14 defaultShippingAddress Accessor Methods/Attributes

Method/Attribute	Description
<code>getStreet1()</code>	The first line in the customer's shipping street address.
<code>getStreet2()</code>	The second line in the customer's shipping street address.
<code>getCity()</code>	The city in the customer's shipping address.
<code>getCounty()</code>	The county in the customer's shipping address.
<code>getState()</code>	The state in the customer's shipping address.
<code>getPostalCode()</code>	The zip/postal code in the customer's shipping address.
<code>getCountry()</code>	The country in the customer's shipping address.

Form Field Specification

The primary purpose of the `profileeditaddress.jsp` template is to allow customers to edit their profile information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `profileeditaddress.jsp` template, most of which are imported from the `editaddressstemplate.inc` file, and a description for each of these form fields are listed in Table 3-15.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the `profileeditaddress.jsp` template.

Table 3-15 profileeditaddress.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (<code>profileeditaddress.jsp</code>), used by the Webflow.
<code>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1</code>	Textbox	The first line in the customer's shipping address. Imported from <code>editaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2</code>	Textbox	The second line in the customer's shipping address. Imported from <code>editaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_CITY</code>	Textbox	The city in the customer's shipping address. Imported from <code>editaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_STATE</code>	Listbox	The state in the customer's shipping address. Imported from <code>editaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE</code>	Textbox	The zip/postal code in the customer's shipping address. Imported from <code>editaddresstemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY</code>	Listbox	The country in the customer's shipping address. Imported from <code>editaddresstemplate.inc</code> .

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY %>`) for use in the JSP.

profilenewcc.jsp Template

The `profilenewcc.jsp` template (shown in Figure 3-5) allows an existing customer to add new credit card information, which will be stored as part of their profile.

Sample Browser View

Figure 3-5 shows an annotated version of the `profilenewcc.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-5 Annotated profilenewcc.jsp Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

This region provides a series of form fields to enter and store payment information related to a new credit card.

The footer is created by importing the `footer.inc` template.

Figure 3-5 Annotated profilenewcc.jsp Template

The screenshot shows a web browser view of the `profilenewcc.jsp` template. At the top, there is a navigation bar with the BEA logo, a title "About Current Template: profilenewcc.jsp", and links for "Template Index" and "Administration". The right side of the header is red and displays "BEA WebLogic Commerce Server 3.5 Commerce Templates". Below the header is a banner for "Storage Boxes!". The main content area is titled "Add Credit Card" and contains a form with the following fields: "Credit card type" (dropdown), "Name on card" (text), "Card number" (text), "Expiration date (mm/yyyy)" (two dropdowns), "Card billing address" (text), "Address 2" (text), "City" (text), "State / Province" (dropdown), "Zip/Postal Code" (text), and "Country" (dropdown). A "Save" button and a "< Back" button are at the bottom of the form. A left sidebar contains a "Welcome Demo Customer" message, links for "View Profile" and "Logout", a "View History" section with "Orders" and "Payments" links, and a "See Our Large Selection of Saws Here!" advertisement. The footer contains a "Built On" logo and copyright information for BEA Systems Inc. (1999-2001).

Location in the WebLogic Commerce Server Directory Structure

You can find the `profilenewcc.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\profilenewcc.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/profilenewcc.jsp (UNIX)
```

Tag Library Imports

The `profilenewcc.jsp` template uses the Webflow JSP tags. Therefore, the template includes the following JSP tag library:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
```

Note: For more information about the Webflow JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

This file resides in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `profilenewcc.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before the `profilenewcc.jsp` template is the page on which a customer can view their current profile (`viewprofile.jsp`). If there are no errors in the form submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, the `profilenewcc.jsp` template is reloaded.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic:Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `profilenewcc.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `newcctemplate.inc`, which also uses the `states.inc` and the `countries.inc` templates. The template is described in “About the Included `newcctemplate.inc` Template” on page 2-18.
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The `profilenewcc.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-16 provides information about these events and the business logic they invoke.

Table 3-16 `profilenewcc.jsp` Events

Event	Webflow Response(s)
<code>button(back)</code>	No business logic required. Loads <code>viewprofile.jsp</code> .
<code>button(save)</code>	<code>UpdatePaymentInfoIP</code> <code>NewCreditCard Pipeline</code>

Table 3-17 briefly describes each of the Pipelines from Table 3-16, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-17 `profilenewcc.jsp` Associated Pipelines

Pipeline	Description
<code>NewCreditCard</code>	Contains <code>EncryptCreditCardPC</code> and <code>UpdatePaymentInfoPC</code> , and is transactional.

Dynamic Data Display

No dynamic data is presented on the `profilenewcc.jsp` template.

Form Field Specification

The primary purpose of the `profilenewcc.jsp` template is to allow customers to enter new credit card information using various HTML form fields. It is also used to pass needed information to the Webflow.

3 Customer Profile Services

The form fields used in the `profilenewcc.jsp` template, most of which are imported from the `newcctemplate.inc` file, and a description for each of these form fields are listed in Table 3-18.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the `profilenewcc.jsp` template.

Table 3-18 `profilenewcc.jsp` Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (<code>profilenewcc.jsp</code>), used by the Webflow.
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE</code>	Listbox	The type of the customer's credit card. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD HOLDER</code>	Textbox	The name on the credit card. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER</code>	Textbox	The number of the customer's credit card. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH</code>	Listbox	The month of the customer's credit card expiration date. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR</code>	Listbox	The year of the customer's credit card expiration date. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1</code>	Textbox	The first line in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2</code>	Textbox	The second line in the customer's billing address. Imported from <code>newcctemplate.inc</code> .

Table 3-18 profilnewcc.jsp Form Fields (Continued)

Parameter Name	Type	Description
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_CITY</code>	Textbox	The city in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_STATE</code>	Listbox	The state in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE</code>	Textbox	The zip/postal code in the customer's billing address. Imported from <code>newcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY</code>	Listbox	The country in the customer's billing address. Imported from <code>newcctemplate.inc</code> .

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY %>`) for use in the JSP.

profileeditcc.jsp Template

The `profileeditcc.jsp` template (shown in Figure 3-6) allows a customer to edit existing credit card information, which will be stored as part of their profile.

Sample Browser View

Figure 3-6 shows an annotated version of the `profileeditcc.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-6 Annotated profileeditcc.jsp Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

This region provides a series of form fields to update credit card payment information.

The footer is created by importing the `footer.inc` template.

BEA WebLogic Commerce Server 3.5
Commerce Templates

About Current Template: **profileeditcc.jsp**

Template Index Administration

Your Logo Here

Click here to see our full line of powerful **Routers!**

[Home](#)

Welcome Demo Customer
[View Profile](#)
[Logout](#)

View History
[Orders](#)
[Payments](#)

See Our Large Selection of Saws Here!

Catalog data provided courtesy of [TPN Register](#), where supply meets demand.

Update Credit Card

Credit card type: VISA

Name on card: Demo Customer *

Card number: xxxxxxxxxxxx1111

Expiration date (mm/yyyy): 3 2003 *

Credit card billing address: One Winthrop Square *

Address 2: _____

City: Boston *

State: MA (Required for U.S. and Canada addresses)

Zip/Postal Code: 02110 *

Country: United States *

Fields marked with (*) are required.

Save

< Back

Built On Copyright © 1999-2001, BEA Systems Inc.

Location in the WebLogic Commerce Server Directory Structure

You can find the `profileeditcc.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\profileeditcc.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/profileeditcc.jsp (UNIX)
```

Tag Library Imports

The `profileeditcc.jsp` template uses the Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>  
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information about the Webflow JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#). For more information on the WebLogic Personalization Server's User Management JSP tags, see “[Personalization Server JSP Tag Library Reference](#)” in the *BEA WebLogic Personalization Server* documentation.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `profileeditcc.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>  
<%@ page import="javax.servlet.http.*" %>
```

```
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before the `profileeditcc.jsp` template is the page on which a customer can view their current profile (`viewprofile.jsp`). If there are no errors in the form submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, `profileeditcc.jsp` is reloaded.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `profileeditcc.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `editcctemplate.inc`, which also uses the `states.inc` and the `countries.inc` templates.

- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:
`<%@ include file="/commerce/includes/footer.inc" %>`

About the Included `editcctemplate.inc` Template

The `editcctemplate.inc` template (included in all JSP templates that allow customers to edit a credit card) provides a standardized format for both the form field presentation and error handling. The form fields are organized in a table, and upon form submission, the Input Processors associated with the `editcctemplate.inc` template will validate the form to ensure that all required fields contain values. If errors are detected, the `editcctemplate.inc` template will be redisplayed, with an error message at the top and the offending field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

Note: The `profileeditcc.jsp` template and the `editcctemplate.inc` do not allow the user to edit a credit card number. To change a credit card number, the credit card must be deleted and then added as a new card.

Since the `editcctemplate.inc` template allows customers to edit an existing shipping address, the form fields on the page are also prefilled with information previously entered by the customer.

The behavior described above is accomplished on the `editcctemplate.inc` template using the `getValidatedValue` JSP tag and the accessor methods/attributes for `defaultCreditCard`, as shown in Listing 3-12.

Listing 3-12 Use of the `getValidatedValue` JSP Tag and Accessor Methods/Attributes on `editcctemplate.inc`

```
<table width="90%" border="0" cellpadding="2" cellspacing="0">
  <tr>
    <td width="27%"><webflow:getValidatedValue
      fieldName="<%=HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE%>"
      fieldDefaultValue="<%=defaultCreditCard.getType()%>"
      fieldValue="customerCreditCardType" fieldStatus="status" validColor="black"
      invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />
      <div class="tabletext"><font color="<%= fontColor %>>Credit card
type</font>
    </div></td>
```

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```
<td width="73%"><div class="tabletext"><%=customerCreditCardType%></div>
<input type="hidden" name="<%=HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE%>"
value="<%=customerCreditCardType%>">
</td>
</table>
```

Notes: For more information about the `getValidatedValue` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

For a list of the available accessor methods/attributes for `defaultCreditCard`, see Table 3-21.

Events

The `profileeditcc.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-19 provides information about these events and the business logic they invoke.

Table 3-19 `profileeditcc.jsp` Events

Event	Webflow Response(s)
<code>button(back)</code>	No business logic required. Loads <code>viewprofile.jsp</code> .
<code>button(save)</code>	<code>UpdatePaymentInfoIP</code> <code>UpdateCreditCard Pipeline</code>

Table 3-20 briefly describes each of the Pipelines from Table 3-19, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-20 `profileeditcc.jsp` Associated Pipelines

Pipeline	Description
<code>UpdateCreditCard</code>	Contains <code>UpdatePaymentPC</code> and is transactional.

Dynamic Data Display

One purpose of the `profileeditcc.jsp` template is to prepare the credit card information a customer had previously entered, so the `editcctemplate.inc` template can display this information in the payment information form fields. This is accomplished on the `profileeditcc.jsp` template using a combination the WebLogic Personalization Server's User Management JSP tags and accessor methods/attributes.

First, the `getProfile` JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-13.

Listing 3-13 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
  profileType="WLCS_Customer" />
```

Note: For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

Next, the `getProperty` JSP tag is used to obtain the customer's list of credit cards (and related billing information), which is then initialized with data from the customer object, as shown in Listing 3-14.

Listing 3-14 Obtaining the Customer's Credit Cards and Billing Information

```
<um:getProperty propertyName="creditCardsMap"
  id="creditCardsMapObject" />

<%
Map creditCardsMap = (Map) creditCardsMapObject;
String creditCardKey =
    request.getParameter(HttpRequestConstants.CREDITCARD_KEY);
CreditCard defaultCreditCard = null;
defaultCreditCard = (CreditCard)
creditCardsMap.get(creditCardKey);
```

```
Address billingAddress = (Address)
defaultCreditCard.getBillingAddress();
```

```
%>
```

The data stored within the `defaultCreditCard` and `billingAddress` objects can now be accessed by calling accessor methods/attributes within Java scriptlets. Table 3-21 provides more detailed information about the methods/attributes for the `defaultCreditCard`, while Table 3-22 provides more information about the accessor methods/attributes on `billingAddress`.

Table 3-21 defaultCreditCard Accessor Methods/Attributes

Method/Attribute	Description
<code>getType()</code>	The credit card type (VISA, MasterCard, AMEX, etc.).
<code>getName()</code>	The credit card holder's name.
<code>getDisplayNumber()</code>	The credit card number for display (12 Xs and last 4 digits).
<code>getNumber()</code>	The credit card number.
<code>getExpirationDate()</code>	The credit card's expiration date.

Table 3-22 billingAddress Accessor Methods/Attributes

Method/Attribute	Description
<code>getStreet1()</code>	The first line in the customer's billing street address.
<code>getStreet2()</code>	The second line in the customer's billing street address.
<code>getCity()</code>	The city in the customer's billing address.
<code>getState()</code>	The state in the customer's billing address.
<code>getPostalCode()</code>	The zip/postal code in the customer's billing address.
<code>getCountry()</code>	The country in the customer's billing address.

Form Field Specification

Another purpose of the `profileeditcc.jsp` template is to allow customers to make changes to their credit card information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `profileeditcc.jsp` template, most of which are imported from the `editcctemplate.inc` file, and a description for each of these fields are listed in Table 3-23.

Table 3-23 `profileeditcc.jsp` Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (<code>profileeditcc.jsp</code>), used by the Webflow.
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_KEY</code>	Hidden	The map key of the customer's credit card.
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE</code>	Hidden	The type of the customer's credit card. Imported from <code>editcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD HOLDER</code>	Textbox	The name on the credit card. Imported from <code>editcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER</code>	Hidden	The number of the customer's credit card. This field does not display on screen. Imported from <code>editcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_DISPLAY_NUMBER</code>	Hidden	The display version of the customer's credit card (12 Xs and last 4 digits). Imported from <code>editcctemplate.inc</code> .
<code>HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH</code>	Listbox	The month of the customer's credit card expiration date. Imported from <code>editcctemplate.inc</code> .

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Table 3-23 profileeditcc.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_CREDITCARD_YEAR	Listbox	The year of the customer's credit card expiration date. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS1	Textbox	The first line in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS2	Textbox	The second line in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_CITY	Textbox	The city in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_STATE	Listbox	The state in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ZIPCODE	Textbox	The zip/postal code in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_COUNTRY	Listbox	The country in the customer's billing address. Imported from editcctemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY %>`) for use in the JSP.

changepassword.jsp Template

The `changepassword.jsp` template (shown in Figure 3-7) allows a customer to change their password, which will be stored as part of their profile.

Sample Browser View

Figure 3-7 shows an annotated version of the `changepassword.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-7 Annotated changepassword.jsp Template

The screenshot displays a web browser view of the `changepassword.jsp` template with several callout boxes explaining its components:

- Top Header:** The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team. It includes the BEA logo, navigation links for "About Current Template: changepassword.jsp", "Template Index", and "Administration", and the text "BEA WebLogic Commerce Server 3.5 Commerce Templates".
- Page Header:** The page header is created by importing the `header.inc` template. It features a "Your Logo Here" placeholder and a "Storage Boxes!" advertisement.
- Left Column:** The left column is created by importing the `leftside.inc` template. It contains a "Welcome Demo Customer" section with links for "View Profile" and "Logout", a "View History" section with links for "Orders" and "Payments", a promotional banner for "See Our Large Selection of Saws Here!", and a note about catalog data provided by "TPN Register".
- Main Content Area:** The "Change Password" form includes fields for "Username" (pre-filled with "democustomer"), "Old password", "New password", and "Confirm new password", each with a small asterisk indicating a required field. There are "Back" and "Save" buttons.
- Right Callout:** This region provides three form fields to change the customer's password.
- Footer:** The footer is created by importing the `footer.inc` template. It includes the BEA logo, "Copyright © 1999-2001," and a link to "BEA Systems Inc."

Location in the WebLogic Commerce Server Directory Structure

You can find the `changepassword.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\changepassword.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/changepassword.jsp (UNIX)
```

Tag Library Imports

The `changepassword.jsp` template uses Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>  
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information about the Webflow JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#). For more information on the WebLogic Personalization Server's User Management JSP tags, see "[Personalization Server JSP Tag Library Reference](#)" in the *BEA WebLogic Personalization Server* documentation.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `changepassword.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>  
<%@ page import="javax.servlet.http.*" %>
```



```
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before the `changepassword.jsp` template is the page on which a customer can view their current profile (`viewprofile.jsp`). If there are no errors in the form submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, `changepassword.jsp` is reloaded.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `changepassword.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The `changepassword.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-24 provides information about these events and the business logic they invoke.

Table 3-24 `changepassword.jsp` Events

Event	Webflow Response(s)
<code>button(back)</code>	No business logic required. Loads <code>viewprofile.jsp</code> .
<code>button(save)</code>	<code>UpdateAccountInfoIP</code> <code>UpdateAccountProfile Pipeline</code>

Table 3-25 briefly describes each of the Pipelines from Table 3-24, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-25 `changepassword.jsp` Associated Pipelines

Pipeline	Description
<code>UpdateAccountProfile</code>	Contains <code>UpdatePasswordPC</code> and is not transactional.

Dynamic Data Display

One purpose of the `changepassword.jsp` template is to display the customer’s username. This is accomplished on the `changepassword.jsp` template using a simple Java scriptlet, as shown in Listing 3-15.

Listing 3-15 Displaying the Customer's Username

```

...
<td>
  <div class="tabletext">
    <b><%=request.getRemoteUser()%></b>
  </div>
</td>
...

```

Note: Customers cannot change their username, only their password. If the New Password and Confirm New Password form fields are not filled in correctly, the page is displayed with all fields empty (that is, no fields are dynamically prefilled upon reload).

Form Field Specification

The primary purpose of the `changepassword.jsp` template is to allow customers to make changes to their password using HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the `changepassword.jsp` template, and a description for each of these form fields are listed in Table 3-26.

Table 3-26 `changepassword.jsp` Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (<code>changepassword.jsp</code>), used by the Webflow.
<code>HttpRequestConstants.PASSWORD</code>	Password	The customer's existing password used to login.
<code>HttpRequestConstants.NEW_PASSWORD</code>	Password	The new password chosen by the customer for login.

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Table 3-26 `changepassword.jsp` Form Fields (Continued)

Parameter Name	Type	Description
<code>HttpServletRequest.CONFIRM_PASSWORD</code>	Password	Confirmation of the new password chosen by the customer for login.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpServletRequest.CONFIRM_PASSWORD %>`) for use in the JSP.

editdemographics.jsp Template

The `editdemographics.jsp` template (shown in Figure 3-8) allows a customer to change their demographic information, which will be stored as part of their profile.

Sample Browser View

Figure 3-8 and Figure 3-9 show annotated versions of the `editdemographics.jsp` template. Although there are two figures, together these screen shots form the single `editdemographics.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 3-8 Annotated editdemographics.jsp Template - First half

The Commerce Templates header (admin.inc) contains useful information for the benefit of you and your development team.

The page header is created by importing the header.inc template.

The left column is created by importing the leftside.inc template.

About Current Template: **editdemographics.jsp**

Template Index Administration

BEA WebLogic Commerce Server 3.5
Commerce Templates

Your Logo Here

Click here to see our full line of powerful **Routers!**

Welcome Demo Customer
[View Profile](#)
[Logout](#)

View History
[Orders](#)
[Payments](#)

Check Out Our Low Prices on Drills!

Catalog data provided courtesy of TPN Register, where supply meets demand.

Edit Demographic Data

Gender *

Female
 Male

Date of Birth * (mm/dd/yyyy)

Occupation *

Clerical
 Executive Management
 Professional
 Engineering
 Management
 Sales

The main body of the page provides a series of radio buttons/form fields to change or update a customer's demographic information.

Employment Status *

Not employed, not looking for work
 Self-employed
 Employed
 Not employed, looking for work

Marital Status *

Widowed
 Married
 Single
 Divorced

Education Level *

High School
 College Graduate
 Graduate Degree
 Professional Degree
 Some College

Income Range *

Under \$35,000
 \$35,000 to \$49,999
 \$50,000 to \$74,999
 \$75,000 to \$99,999

Figure 3-9 Annotated editdemographics.jsp Template - Second half

The screenshot displays the second half of the annotated `editdemographics.jsp` template. It features three main form sections, each with a blue horizontal separator below it:

- Education Level ***: Radio buttons for Graduate Degree, Professional Degree, and Some College.
- Income Range ***: Radio buttons for Under \$35,000, \$35,000 to \$49,999, \$50,000 to \$74,999, \$75,000 to \$99,999, \$100,000 to \$124,999, and \$125,000 and above.
- Handiness ***: Radio buttons for Do It Yourselfer, All thumbs, Saturday Helper, and Professional.

Below these sections, a message states: "Fields marked with (*) are required." At the bottom of the form area are two buttons: "Save" and "< Back".

On the right side of the form area, a text box explains: "The main body of the page provides a series of radio buttons/form fields to change or update a customer's demographic information."

The footer section includes a note on the left: "The footer is created by importing the footer.inc template." In the center, it says "Copyright © 1999-2001, BEA Systems Inc." and features the BEA logo. On the right, there is a "Built On" logo.

Location in the WebLogic Commerce Server Directory Structure

You can find the `changepassword.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\user\editdemographics.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/user/editdemographics.jsp (UNIX)
```

Tag Library Imports

The `editdemographics.jsp` template uses Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
<%@ taglib uri="es.tld" prefix="es" %>
```

Note: For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*. For more information on the WebLogic Personalization Server's User Management JSP tags, see “[Personalization Server JSP Tag Library Reference](#)” in the *BEA WebLogic Personalization Server* documentation.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\
WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The `editdemographics.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.user.jsp.UserManagementJspPages" %>
<%@ page import="com.beasys.commerce.foundation.property.PropertyMetaData" %>
<%@ page import="java.util.*" %>
```

Location in Default Webflow

The page before the `editdemographics.jsp` template is the page on which a customer can view their current profile (`viewprofile.jsp`). If there are no errors in the form submission, the next page in the default Webflow is `viewprofile.jsp`. If corrections do need to be made, `editdemographics.jsp` is reloaded.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `changepassword.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `newdemographictemplate.inc`, which contains formatting for the demographic data. The template is described in “About the Included `newdemographictemplate.inc` Template” on page 2-19.
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The `editdemographics.jsp` template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-27 provides information about these events and the business logic they invoke.

Table 3-27 editdemographics.jsp Events

Event	Webflow Response(s)
button(back)	No business logic required. Loads <code>viewprofile.jsp</code> .
button(save)	UpdateDemographicInfoIP EditDemographicInfo Pipeline

Table 3-28 briefly describes each of the Pipelines from Table 3-27, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 3-72.

Table 3-28 editdemographics.jsp Associated Pipelines

Pipeline	Description
EditDemographicInfo	Contains UpdateDemographicInfoPC and is transactional.

Dynamic Data Display

No dynamic data is presented on the `editdemographics.jsp` template.

Form Field Specification

The primary purpose of the `editdemographics.jsp` template is to allow customers to make changes to their demographic information using HTML form fields and radio buttons. It is also used to pass needed information to the Webflow.

The form fields used in the `editdemographics.jsp` template, most of which are imported from the `newdemographictemplate.inc` file, and a description for each of these form fields are listed in Table 3-29.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the `editdemographics.jsp` template.

Table 3-29 editdemographics.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (editdemographics.jsp), used by the Webflow.
HttpRequestConstants. CUSTOMER_GENDER	Radio buttons	Identifies the customer as male or female. Imported.
HttpRequestConstants. CUSTOMER_DATE_OF_BIRTH	Textboxes	The customer's date of birth. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_OCCUPATION	Radio buttons	The customer's job description. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_EMPLOYMENT_STATUS	Radio buttons	Identifies if the customer has a job at the time of registration. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_MARITAL_STATUS	Radio buttons	Identifies the customer's marital status. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_EDUCATION_LEVEL	Radio buttons	Identifies how much formal education the customer has completed. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_INCOME_RANGE	Radio buttons	Identifies the customer's yearly income. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_QUALITY	Radio buttons	Ranks customer from beginner to expert in using your product. Imported from newdemographictemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as `<%= HttpRequestConstants.CUSTOMER_QUALITY %>`) for use in the JSP.

Input Processors

This section provides a brief description of each Input Processor associated with the Customer Profile Services JSP template(s).

DeleteCreditCardIP

Class Name	<code>com.beasys.commerce.ebusiness.customer.webflow.DeleteCreditCardIP</code>
Description	Deletes a <code>CreditCard</code> from the <code>CreditCardMap</code> and creates a new <code>CustomerValue</code> object; then sets the <code>CreditCardMap</code> on <code>CustomerValue</code> and places it into the Pipeline session.
Required HttpServletRequest Parameters	<code>HttpRequestConstants.CREDITCARD_KEY</code> (code location: <code>profileeditcc.jsp</code> template.)
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.CUSTOMER</code>
Removed Pipeline Session Attributes	None
Validation	Verifies that <code>HttpRequestConstants.CREDITCARD_KEY</code> is not <code>NULL</code> .
Exceptions	<code>InvalidInputException</code> , thrown if <code>HttpRequestConstants.CREDITCARD_KEY</code> is <code>NULL</code> . <code>InvalidSessionStateException</code> , thrown if the session is unavailable or has expired.

DeleteShippingAddressIP

Class Name	<code>com.beasys.commerce.ebusiness.customer.webflow.DeleteShippingAddressIP</code>
Description	Deletes a <code>ShippingAddress</code> from the <code>ShippingAddressMap</code> and creates a new <code>CustomerValue</code> object; then sets the <code>ShippingAddressMap</code> on <code>CustomerValue</code> and places it into the Pipeline session.
Required HTTPServlet Request Parameters	<code>HttpRequestConstants.ADDRESS_KEY</code> (code location: <code>profileeditaddress.jsp</code> template.)
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.CUSTOMER</code>
Removed Pipeline Session Attributes	None
Validation	Verifies that <code>HttpRequestConstants.ADDRESS_KEY</code> is not <code>NULL</code> .
Exceptions	<code>InvalidInputException</code> , thrown if <code>HttpRequestConstants.ADDRESS_KEY</code> is <code>NULL</code> . <code>InvalidSessionStateException</code> , thrown if the session is unavailable or has expired.

UpdateAccountInfoIP

Class Name	<code>com.beasys.commerce.ebusiness.customer.webflow.UpdateAccountInfoIP</code>
Description	Processes the customer's input from the <code>changepassword.jsp</code> . Creates a <code>CustomerValue</code> object in the Pipeline session containing the new information.
Required HttpServletRequest Parameters	<code>HttpRequestConstants.PASSWORD</code> <code>HttpRequestConstants.NEW_PASSWORD</code> <code>HttpRequestConstants.CONFIRM_PASSWORD</code> (code location: <code>changepassword.jsp</code> template.)
Required Pipeline Session Attributes	None
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.PASSWORD</code>
Removed Pipeline Session Attributes	None
Validation	Validates the current password and verifies that the required fields contain values.
Exceptions	<code>InvalidInputException</code> , thrown when the current password is incorrect, when the required fields do not contain values, or if the new password and confirm password values do not match. <code>ProcessingException</code> , thrown in the case of a configuration error.

UpdateBasicInfoIP

Class Name	com.beasys.commerce.ebusiness.customer.webflow.UpdateBasicInfoIP
Description	Processes the customer's input from the editprofile.jsp. Creates a CustomerValue object in the Pipeline session containing the new information.
Required HttpServletRequest Parameters	<p>HttpRequestConstants.CUSTOMER_FIRST_NAME HttpRequestConstants.CUSTOMER_MIDDLE_NAME HttpRequestConstants.CUSTOMER_LAST_NAME HttpRequestConstants.CUSTOMER_ADDRESS1 HttpRequestConstants.CUSTOMER_ADDRESS2 HttpRequestConstants.CUSTOMER_CITY HttpRequestConstants.CUSTOMER_STATE HttpRequestConstants.CUSTOMER_ZIPCODE HttpRequestConstants.CUSTOMER_COUNTRY HttpRequestConstants.CUSTOMER_HOME_PHONE HttpRequestConstants.CUSTOMER_BUSINESS_PHONE HttpRequestConstants.CUSTOMER_EMAIL HttpRequestConstants.CUSTOMER_EMAIL_OPT_IN</p> <p>(code location: editprofile.jsp template.)</p>
Required Pipeline Session Attributes	PipelineSessionConstants.USER_NAME
Updated Pipeline Session Attributes	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session Attributes	None
Validation	Verifies that the required fields contain values.
Exceptions	<p>InvalidInputException, thrown if the required fields do not contain values.</p> <p>ProcessingException, thrown if the customer id in the pipeline session is invalid.</p>

UpdateDemographicInfoIP

Class Name	<code>com.beasys.commerce.ebusiness.customer.webflow.UpdateDemographicInfoIP</code>
Description	Processes the customer's input from the <code>editdemographics.jsp</code> . Creates a <code>CustomerValue</code> object in the Pipeline session containing the new information.
Required HttpServletRequest Parameters	<code>HttpRequestConstants.CUSTOMER_GENDER</code> <code>HttpRequestConstants.CUSTOMER_DATE_OF_BIRTH</code> <code>HttpRequestConstants.CUSTOMER_OCCUPATION</code> <code>HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS</code> <code>HttpRequestConstants.CUSTOMER_MARITAL_STATUS</code> <code>HttpRequestConstants.CUSTOMER_EDUCATION_LEVEL</code> <code>HttpRequestConstants.CUSTOMER_INCOME_RANGE</code> <code>HttpRequestConstants.CUSTOMER_QUALITY</code> <code>HttpRequestConstants.HANDINESS</code> (code location: <code>newdemographictemplate.inc</code> template.)
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.CUSTOMER</code> <code>PipelineSessionConstants.CREDITCARD_KEY</code>
Removed Pipeline Session Attributes	None
Validation	Verifies that the status of <code>invalidFieldisPresent</code> is not true.
Exceptions	<code>InvalidInputException</code> , thrown if <code>invalidFieldisPresent</code> is true. <code>InvalidSessionStateException</code> , thrown when the session is unavailable or has expired. <code>ProcessingException</code> , thrown if the customer ID in the Pipeline session is invalid.

UpdatePaymentInfoIP

Class Name	com.beasys.commerce.ebusiness.customer.webflow. UpdatePaymentInfoIP
Description	Processes the customer's input from <code>profilenewcc.jsp</code> and <code>profileeditcc.jsp</code> . Creates a <code>CustomerValue</code> object in the Pipeline session containing the new information.
Required HttpServletRequest Parameters	<p><code>HttpRequestConstants.CREDITCARD_KEY</code> (code location: <code>profileedit.jsp</code> template.)</p> <hr/> <p><code>HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD HOLDER</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_DISPLAY_NUMBER</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_CITY</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_STATE</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE</code> <code>HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY</code> (code location: <code>editcctemplate.inc</code> template.)</p>
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.CUSTOMER</code> <code>PipelineSessionConstants.CREDITCARD_KEY</code>
Removed Pipeline Session Attributes	None
Validation	Verifies that the required fields contain values, and verifies that the length of the credit card number is not less than 16 digits (15 digits for AMEX).

3 *Customer Profile Services*

Exceptions

`InvalidInputException`, thrown if the required fields do not contain values or the credit card number is less than the minimum required for the type.

`InvalidSessionStateException`, thrown if the session is unavailable or has expired.

UpdateShippingInfoIP

Class Name	com.beasys.commerce.ebusiness.customer.webflow. UpdateShippingInfoIP
Description	Processes the customer's input from the profileeditaddress.jsp. Creates a CustomerValue object in the Pipeline session containing the new information.
Required HttpServletRequest Parameters	HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2 HttpRequestConstants.CUSTOMER_SHIPPING_CITY HttpRequestConstants.CUSTOMER_SHIPPING_STATE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY (code location: editaddresstemplate.inc template.)
Required Pipeline Session Attributes	PipelineSessionConstants.USER_NAME
Updated Pipeline Session Attributes	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session Attributes	None
Validation	Verifies that the required fields contain values.
Exceptions	InvalidInputException, thrown when the required fields do not contain values. InvalidSessionStateException, thrown if the session is unavailable or is expired.

Pipeline Components

This section provides a brief description of each Pipeline component associated with the Customer Profile Services JSP template(s).

Note: Some Pipeline components extend other, base Pipeline components. For more information on the base classes, see the [Javadoc](#).

UpdateBasicInfoPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.UpdateBasicInfoPC</code>
Description	Updates the <code>Customer</code> object for changes made by <code>UpdateBasicInfoIP</code> . This Pipeline component must stay in sync with the <code>UpdateBasicInfoIP</code> Input Processor.
Contained in	<code>EditBasicInfo</code> Pipeline
Required Pipeline Session Attributes	None
Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	None
Type	Java class
JNDI Name	None
Exceptions	<code>PipelineFatalException</code> , thrown when the Pipeline component is not able to set the customer's properties.

UpdateDemographicInfoPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.UpdateBasicInfoPC</code>
Description	Updates the Customer object for changes made by UpdateDemographicInfoIP. This Pipeline component must stay in sync with the UpdateBasicDemographicIP Input Processor.
Contained in	EditDemographicInfo Pipeline
Required Pipeline Session Attributes	None
Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	None
Type	Java class
JNDI Name	None
Exceptions	<code>PipelineFatalException</code> , thrown when the Pipeline component is not able to set the customer's properties.

UpdatePasswordPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.UpdatePasswordPC</code>
Description	Retrieves the <code>USER_NAME</code> and <code>PASSWORD</code> from the Pipeline session and updates the password for the user.
Contained in	<code>UpdateAccountProfile Pipeline</code>
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code> <code>PipelineSessionConstants.PASSWORD</code>
Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	<code>PipelineSessionConstants.PASSWORD</code>
Type	Java class
JNDI Name	None
Exceptions	<code>PipelineFatalException</code> , thrown when the Pipeline component is not able to set the customer's properties.

UpdatePaymentInfoPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.UpdatePaymentInfoPC</code>
Description	Updates the Customer object for changes made by UpdatePaymentInfoIP. This Pipeline component must stay in sync with the the UpdatePaymentInfoIP Input Processor.
Contained in	DeleteCreditCard, NewCreditCard, NewCreditCardForPayment, UpdateCreditCard, and UpdateCreditCardForPayment Pipelines
Required Pipeline Session Attributes	None
Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	None
Type	Java class
JNDI Name	None
Exceptions	PipelineFatalException, thrown when the Pipeline component is not able to set the customer's properties.

UpdateShippingInfoPC

Class Name	<code>com.beasys.commerce.ebusiness.customer.pipeline.UpdateShippingInfoPC</code>
Description	Updates the Customer object for changes made by UpdateShippingInfoIP. This Pipeline component must stay in sync with the the UpdateShippingInfoIP Input Processor.
Contained in	ProfileNewAddress, ProfileEditAddress, and DeleteShippingAddressFromProfile Pipelines
Required Pipeline Session Attributes	None
Updated Pipeline Session Attributes	None
Removed Pipeline Session Attributes	None
Type	Java class
JNDI Name	None
Exceptions	PipelineFatalException, thrown when the Pipeline component is not able to set the customer's properties.

4 Customer Self-Service

Customers who make purchases from an e-commerce site often want access to their order and payment history. In many cases, customers expect to have this information available. To meet this need, the Registering Customers and Managing Customer services provide you with a series of JSPs designed specifically for this purpose. The customer self-service pages allow registered customers who have previously placed orders with your e-business to locate information about their past orders and payments, and to check on the status of these orders. The customer self-service pages can help you maintain a high level of service for all your customers by giving them the information they require. This topic describes each of the customer self-service pages in detail.

This topic includes the following sections:

- JavaServer Pages (JSPs)
 - orderhistory.jsp Template
 - orderstatus.jsp Template
 - paymenthistory.jsp Template
- Input Processors
 - SelectOrderForViewingIP
- Pipeline Components
 - RefreshOrderHistoryPC
 - RefreshPaymentHistoryPC

JavaServer Pages (JSPs)

Like the other services available in the Registering Customers and Managing Customer services, customer self-service is implemented through a number of JavaServer Pages (JSPs). You can use these JSPs as an out-of-the-box solution or customize them to meet your unique business requirements. This section describes each of the customer self-service pages in detail.

Note: For a description of the complete set of JSPs used in the WebLogic Commerce Server Web application and a listing of their locations in the directory structure, see the “[Template Summary](#)” documentation.

A customer must be logged into your e-commerce site for the customer self-service options to be available. The customer self-service options appear in the left column created by the `leftside.inc` template. Figure 4-1 shows the `main.jsp` template (the home page for the product catalog) with the options available. For more information about the `main.jsp` template, see “[The Product Catalog JSP Templates](#)” in the *Guide to Building a Product Catalog*.

Figure 4-1 The Customer Self-Service Section on main.jsp Template



The Customer Self-Service section is only available if the customer is logged into the Web site. Customer Self-Service consists of order history, order status, and payment status.

orderhistory.jsp Template

The `orderhistory.jsp` template (shown in Figure 4-2) displays a list of order summaries (including order date, order number, and order amount) for each of the customer's orders. It also provides the customer with a View button for each order in the list, which allows the customer to view details about the order, including its status.

Sample Browser View

Figure 4-2 shows an annotated version of the `orderhistory.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 4-2 Annotated orderhistory.jsp Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

The main body of the page contains dynamically-generated data about the customer's order history.

The footer is created by importing the `footer.inc` template.

Date	Order Number	Amount	
2001-03-28	1	\$164.75	View

Location in the WebLogic Commerce Server Directory Structure

You can find the `orderhistory.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\order\orderhistory.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/order/orderhistory.jsp (UNIX)
```

Tag Library Imports

The `orderhistory.jsp` template uses WebLogic and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>
<%@ taglib uri="pipeline.tld" prefix="pipeline" %>
<%@ taglib uri="es.tld" prefix="es" %>
```

Note: For more information about the Pipeline JSP tags, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#). For more information on the WebLogic Commerce Server JSP tags, see “[JSP Tag References](#)” in the *BEA WebLogic Commerce Server and WebLogic Personalization Server* documentation.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `orderhistory.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="java.util.*" %>
<%@ page import="java.text.*" %>
```

```
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
<%@ page import="com.beasys.commerce.axiom.units.*" %>
<%@ page import="com.beasys.commerce.ebusiness.shipping.*" %>
<%@ page import="com.beasys.commerce.ebusiness.order.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

Customers arrive at the `orderhistory.jsp` template from the product catalog home page (`main.jsp`). From here, customers can return back to the product catalog home page, or display the details of a specific order by selecting it (`orderstatus.jsp`).

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following include templates are included in the `orderhistory.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

Every time a customer clicks a button to view more detail about an order, it is considered an event. Each event triggers a particular response in the default Webflow that allows them to continue. While this response can be to load another JSP, it is usually the case that an Input Processor and/or Pipeline is invoked first. Table 4-1 provides information about these events and the business logic they invoke.

Table 4-1 `orderhistory.jsp` Events

Event	Webflow Response(s)
--	RefreshOrderHistory Pipeline
<code>button(viewOrderStatus)</code>	SelectOrderForViewingIP

Table 4-2 briefly describes each of the Pipelines from Table 4-1, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 4-27.

Table 4-2 `orderhistory.jsp` Associated Pipelines

Pipeline	Description
RefreshOrderHistory	Contains RefreshOrderHistoryPC and is not transactional.

Note: Although the RefreshOrderHistory Pipeline is associated with the `orderhistory.jsp` template, it is not triggered by an event on the page. Rather, the RefreshOrderHistory Pipeline is executed before the `orderhistory.jsp` is viewed, to locate the orders associated with the customer requesting the information.

Dynamic Data Display

One purpose of the `orderhistory.jsp` template is to display the data specific to a customer’s orders for their review and possible selection. This is accomplished on `orderhistory.jsp` using a combination of WebLogic Server JSP tags, Pipeline JSP tags, and attributes/methods.

First, the `getPipelineProperty` JSP tag retrieves the `SCROLLABLE_MODEL` attribute from the Pipeline session. Table 4-3 provides more detailed information on this attribute.

Table 4-3 `orderhistory.jsp` Pipeline Session Attributes

Attribute	Type	Description
<code>PipelineSessionConstant.SCROLLABLE_MODEL</code>	<code>com.beasys.commerce.ebusiness.util.ScrollableModel</code>	List of the orders available for the customer.

Listing 4-1 illustrates how this attribute is retrieved from the Pipeline session using the `getPipelineProperty` JSP tag.

Listing 4-1 Retrieving the Order History Attribute

```
<pipeline:getPipelineProperty
propertyName="<%=PipelineSessionConstants.SCROLLABLE_MODEL%>"
returnName="orderHistory"
returnType="com.beasys.commerce.util.ScrollableModel" />
```

Note: For more information on the `getPipelineProperty` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 4-4 provides more detailed information about these methods/attributes for `OrderValue`.

Table 4-4 `OrderValue` Accessor Methods/Attributes

Method/Attribute	Description
<code>createdDate()</code>	The date the customer's order was created.
<code>identifier()</code>	Key in the database for the order.
<code>getValue()</code>	The total price of that order. The price attribute is a money object.

Listing 4-2 illustrates how these accessor methods/attributes are used within Java scriptlets along with the WebLogic Server JSP tags to display the information.

Listing 4-2 Using Accessor Methods/Attributes Within orderhistory.jsp Java Scriptlets

```
<wl:repeat set="<%=currentPage%>" id="orderValue"
type="OrderValue" count="100">

<table>
<tr>
  <td>
    <div class="tabletext"><%=orderValue.createdDate%></div>
  </td>
  <td>
    <div class="tabletext"><%=orderValue.identifier%></div>
  </td>
  <td>
    <div class="tabletext">
      <% Money total = orderValue.price; %><%= total.getCurrency() %>
      <%= WebflowJSPHelper.priceFormat(total.getValue()) %>
    </div>
  </td>
</tr>
</table>

</wl:repeat>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see “[JSP Tag References](#)” in the *BEA WebLogic Commerce Server and WebLogic Personalization Server* documentation.

Form Field Specification

No form fields are used in the orderhistory.jsp template.

orderstatus.jsp Template

The `orderstatus.jsp` template (shown in Figure 4-3) displays a variety of information for the order summary the customer selected from the list presented on the `orderhistory.jsp` template. This order information includes the order confirmation number, the order status, the date the order was placed, splitting instructions, special instructions, the shipping address, information related to the specific shopping cart items (name, description, quantity, unit price), and total amounts (shipping and handling, tax, and total order cost).

Sample Browser View

Figure 4-3 shows an annotated version of the `orderstatus.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 4-3 Annotated orderstatus.jsp Template

The Commerce Templates header (admin.inc) contains useful information for the benefit of you and your development team.

The page header is created by importing the header.inc template.

The left column is created by importing the leftside.inc template.

The main body of the page contains dynamically-generated data about a particular order the customer selected from the orderhistory.jsp template.

The footer is created by importing the footer.inc template.

Order Status

Confirmation number: 1
 Order status: Submitted
 Date ordered: 2001-03-28
 Splitting preferences: Ship as the items become available
 Special instructions: None
 Shipping address: One Winthrop Square, BOSTON, MA-02110, United States

ID	Description	Quantity	Subtotal
9-27168	saw-9-27168	1	\$ 151.95
Shipping & Handling			\$ 4.95
Total tax			\$ 7.85
Total due			\$ 164.75

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Location in WebLogic Commerce Server Directory Structure

You can find the `orderstatus.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\order\orderstatus.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/order/orderstatus.jsp (UNIX)
```

Tag Library Imports

The `orderstatus.jsp` template uses WebLogic and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>
<%@ taglib uri="pipeline.tld" prefix="pipeline" %>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see “[JSP Tag References](#)” in the *BEA WebLogic Commerce Server and WebLogic Personalization Server* documentation. For more information about the Pipeline JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\
WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The `orderstatus.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="java.util.*" %>
<%@ page import="java.text.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
<%@ page import="com.beasys.commerce.axiom.units.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.order.*" %>
<%@ page import="com.beasys.commerce.ebusiness.payment.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
```

Location in Default Web Flow

Customers arrive at the `orderstatus.jsp` template from the page that displays summaries of their past orders (`orderhistory.jsp`). The default Webflow does not define a subsequent JSP template.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `orderstatus.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

There are no events on the `orderstatus.jsp` template.

Dynamic Data Display

The purpose of the `orderstatus.jsp` template is to display the data specific to a customer's order for their review. The dynamic content on `orderstatus.jsp` is obtained using a combination of WebLogic Server JSP tags, Pipeline JSP tags, and accessor methods/attributes.

4 Customer Self-Service

First, the `getPipelineProperty` JSP tag retrieves the `SELECTED_ORDER` attribute from the Pipeline session. Table 4-5 provides more detailed information on this attribute.

Table 4-5 `orderstatus.jsp` Pipeline Session Attributes

Attribute	Type	Description
<code>PipelineSessionConstant.SELECTED_ORDER</code>	<code>com.beasys.commerce.ebusiness.order.OrderValue</code>	Contains information about the order selected by the customer.

Listing 4-3 illustrates how this attribute is retrieved from the Pipeline session using the `getPipelineProperty` JSP tag.

Listing 4-3 Retrieving the Selected Order Attribute

```
<pipeline:getPipelineProperty
  propertyName="<%=PipelineSessionConstants.SELECTED_ORDER%>"
  returnName="orderValue"
  returnType="com.beasys.commerce.ebusiness.order.OrderValue"/>
```

Note: For more information on the `getPipelineProperty` JSP tag, see the [Guide to Managing Presentation and Business Logic:Using Webflow and Pipeline](#).

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 4-6 provides more detailed information about these methods/attributes for `OrderValue`.

Table 4-6 `OrderValue` Accessor Methods/Attributes

Method/Attribute	Description
<code>createdDate()</code>	The date the customer's order was created.
<code>identifier()</code>	Key in the database for the order; the order confirmation number.
<code>orderStatus()</code>	The status of the order.

Table 4-6 OrderValue Accessor Methods/Attributes (Continued)

Method/Attribute	Description
<code>splittingPreference()</code>	The splitting preference for the order.
<code>specialInstructions()</code>	Any special instructions for the order.
<code>shippingAddress()</code>	The shipping address for the order.
<code>orderLines()</code>	A collection of the lines in the shopping cart that make up the customer's order.
<code>getTotal()</code>	In this instance, the total tax specified by the <code>OrderConstants.LINE_TAX</code> parameter. Note: The <code>getTotal()</code> method also allows you to combine different total types. For more information, see the Javadoc .
<code>adjustmentPresentations()</code>	Returns a list of adjustments or discounts applied to the overall order in the form of (<code>OrderAdjustmentPresentation</code>). See Table 4-7 for more information.

Table 4-7 provides more detailed information about the methods/attributes for `OrderAdjustPresentation`.

Table 4-7 OrderAdjustmentPresentation Accessor Methods

Method/Attribute	Description
<code>getReason()</code>	Describes why the discount applies to the customer.
<code>getComputation()</code>	The formula used to compute the discount.
<code>getDiscount()</code>	This is the actual dollar amount of the discount.
<code>getAdjustmentType()</code>	Describes how the price adjustment is applied. For example, a discount is subtracted from the total price of the objects ordered, but a shipping tax is calculated from and added to the shipping price.

Table 4-8 describes the accessor methods/attributes available within the `shippingAddress` attribute of `OrderValue`.

Table 4-8 shippingAddress Accessor Methods

Method/Attribute	Description
<code>getStreet1()</code>	The first line of the customer's street address.
<code>getStreet2()</code>	The second line of the customer's street address.
<code>getCity()</code>	The city in the customer's address.
<code>getState()</code>	The state in the customer's address.
<code>getPostalCode()</code>	The zip/postal code in the customer's address.
<code>getCountry()</code>	The country in the customer's address.

Table 4-9 describes the accessor methods/attributes available for each `OrderLine` of the `OrderLines` attribute.

Table 4-9 OrderLine Accessor Methods

Method/Attribute	Description
<code>getProductIdentifier()</code>	The name (identifier) for the shopping cart item.
<code>getDescription()</code>	A description of the shopping cart item.
<code>getQuantity()</code>	The quantity of the shopping cart item.
<code>getUnitPrice()</code>	The unit price for the shopping cart item.
<code>getAdjustmentPresentations()</code>	Returns a list of order presentation objects. See Table 4-7 for more information.

Listing 4-4 illustrates how these accessor methods/attributes are used within Java servlets along with the WebLogic Server JSP tags to display the information.

Listing 4-4 Using Accessor Methods/Attributes Within orderstatus.jsp Java Scriptlets

```

<table border="0" width="90%" cellpadding="5" cellspacing="0">
<tr>
  <td><div class="tabletext"><b>Confirmation number</b></div></td>
  <td><div class="tabletext"><%=orderValue.identifier%></div></td>
</tr>
.
.
.
<tr>
<td valign="top"><div class="tabletext">
  <%=orderValue.shippingAddress.getStreet1()%></div>

<% if (orderValue.shippingAddress.getStreet2().length() != 0) { %>
  <div class="tabletext">
    <%=orderValue.shippingAddress.getStreet2()%></div><% } %>

  <div class="tabletext">
    <%=orderValue.shippingAddress.getCity()%></div>

    <div class="tabletext"><%String stateZip =
orderValue.shippingAddress.getState()+ "-" +
orderValue.shippingAddress.getPostalCode();%></div>

<div class="tabletext"><%=stateZip%></div>
<div class="tabletext">
<%=orderValue.shippingAddress.getCountry()%></div></td>
</tr>
</table>
.
.
.
<wl:repeat set="<%=orderValue.orderLines.iterator()%>"
id="orderLine" type="OrderLine" count="100">
  <tr>
    <td>
      <div class="tabletext">
        <%= orderLine.getProductIdentifier() %></div>
      </td>
      <td>
        <div class="tabletext"><%= orderLine.getDescription() %></div>
      </td>
      <td align="right"><div class="tabletext">
        <%= quantityFormat.format( orderLine.getQuantity()) %></div>
      </td>

```

```
<td align="right" nowrap><div class="tabletext">
<%= orderLine.getUnitPrice().getCurrency() %>
<%= WebflowJSPHelper.priceFormat( orderLine.getTotalLineAmount() )
%></div>

</td>
</tr>
.
.
.
</wl:repeat>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see the “[JSP Tag References](#)” in the *BEA WebLogic Commerce Server and WebLogic Personalization Server* documentation.

Form Field Specification

No form fields are used in the `orderstatus.jsp` template.

paymenthistory.jsp Template

The `paymenthistory.jsp` template (shown in Figure 4-4) allows the customer to view information regarding the payments that have been made. This information includes the date, the payment transaction ID, the credit card used, and the amount that was billed to the credit card.

Sample Browser View

Figure 4-4 shows an annotated version of the `paymenthistory.jsp` template. The black lines and callout text are not part of the template; they are explanations of the template components.

Figure 4-4 Annotated paymenthistory.jsp Template

The Commerce Templates header (`admin.inc`) contains useful information for the benefit of you and your development team.

The page header is created by importing the `header.inc` template.

The left column is created by importing the `leftside.inc` template.

The main body of the page contains dynamically-generated data about a customer's payments.

The footer is created by importing the `footer.inc` template.

About Current Template: paymenthistory.jsp

Template Index Administration

BEA WebLogic Commerce Server 3.5
Commerce Templates

Your Logo Here

Don't forget to buy and wear our **Safety Equipment!**

Home

Welcome Demo Customer
[View Profile](#)
[Logout](#)

View History
[Orders](#)
[Payments](#)

See Our Large Selection of Saws **Here!**

Catalog data provided courtesy of [TPN Register](#), 'where supply meets demand.'

Copyright © 1999-2001, [BEA Systems Inc.](#)

Date	Transaction ID	Credit card	Amount
2001-03-28	1985804109839	XXXXXXXXXXXX1111	\$151.95

< Back

Location in the WebLogic Commerce Server Directory Structure

You can find the `paymenthistory.jsp` template file at the following location, where `$WL_COMMERCE_HOME` is the directory in which you installed WebLogic Commerce Server:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\commerce\order\paymenthistory.jsp (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/commerce/order/paymenthistory.jsp (UNIX)
```

Tag Library Imports

The `paymenthistory.jsp` template uses WebLogic and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>  
<%@ taglib uri="pipeline.tld" prefix="pipeline" %>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see “[JSP Tag References](#)” in the *BEA WebLogic Commerce Server and WebLogic Personalization Server* documentation. For more information about the Pipeline JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

These files reside in the following directory for the WebLogic Commerce Server Web application:

```
%WL_COMMERCE_HOME\config\wlcsDomain\applications\wlcsApp\wlcs\WEB-INF (Windows)
```

```
$WL_COMMERCE_HOME/config/wlcsDomain/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The `paymenthistory.jsp` template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="java.util.*" %>  
<%@ page import="java.text.*" %>  
<%@ page import="com.beasys.commerce.foundation.pipeline.*" %>
```

```
<%@ page import="com.beasys.commerce.ebusiness.payment.*" %>
<%@ page import="com.beasys.commerce.webflow.*" %>
```

Location in Default Webflow

Customers arrive at `paymenthistory.jsp` from the product catalog home page (`main.jsp`). The default Webflow does not define a subsequent JSP template.

Note: For more information about the default Webflow, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

Included JSP Templates

The following JSP templates are included in the `paymenthistory.jsp` template:

- `admin.inc`, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The `admin.inc` template should be removed from the production pages before they are moved to your live server.
- `stylesheet.inc`, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```
- `header.inc`, which creates the page header. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/header.inc" %>
```
- `leftside.inc`, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```
- `footer.inc`, which creates the page footer. It is standard across many of the JSP templates provided by WebLogic Commerce Server. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

There are no events on the `paymenthistory.jsp` template that trigger Input Processors or Pipelines in the Webflow. Table 4-10 briefly describes each of the Pipelines associated with the `paymenthistory.jsp` template, as they are defined in the `pipeline.properties` file. For more information about individual Pipeline components, see “Pipeline Components” on page 4-27.

Table 4-10 `paymenthistory.jsp` Associated Pipelines

Pipeline	Description
<code>RefreshPaymentHistory</code>	Contains <code>RefreshPaymentHistoryPC</code> and is not transactional.

Note: Although the `RefreshPaymentHistory` Pipeline is associated with the `paymenthistory.jsp` template, it is not triggered by an event on the page. Rather, the `RefreshPaymentHistory` Pipeline is executed before the `paymenthistory.jsp` is viewed, to locate the payments associated with the customer requesting the information.

Dynamic Data Display

The purpose of the `paymenthistory.jsp` template is to display the data specific to a customer’s payments for their review. This is accomplished on `paymenthistory.jsp` using a combination of WebLogic Server JSP tags, Pipeline JSP tags, and accessor methods/attributes.

First, the `getPipelineProperty` JSP tag retrieves the `PAYMENT_HISTORY` attribute from the Pipeline session. Table 4-11 provides more detailed information on this attribute.

Table 4-11 `paymenthistory.jsp` Pipeline Session Attributes

Attribute	Type	Description
<code>PipelineSessionConstant.PAYMENT_HISTORY</code>	List of <code>com.beasys.commerce.ebusiness.payment.PaymentTransactionValue</code>	List of the payments available for the customer.

Listing 4-5 illustrates how this attribute is retrieved from the Pipeline session using the `getPipelineProperty` JSP tag.

Listing 4-5 Retrieving the Payment History Attribute

```
<pipeline:getPipelineProperty
  propertyName="<%=PipelineSessionConstants.PAYMENT_HISTORY%>"
  returnName="paymentHistory" returnType="java.util.List"
  attributeScope="<%=PipelineConstants.REQUEST_SCOPE%>" />
```

Note: For more information on the `getPipelineProperty` JSP tag, see the [Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline](#).

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 4-12 provides more detailed information about these methods/attributes for `PaymentTransactionValue`.

Table 4-12 PaymentTransactionValue Accessor Methods/Attributes

Method/Attribute	Description
<code>transactionDate()</code>	The date of the payment transaction.
<code>transactionId()</code>	Key in the database for the transaction; the payment confirmation number.
<code>creditCard()</code>	The status of the order.
<code>transactionAmount()</code>	The splitting preference for the order.

The `creditCard` and `transactionAmount` attributes also have accessor methods/attributes, as shown in Table 4-13 and Table 4-14.

Table 4-13 creditCard Accessor Methods/Attributes

Method/Attribute	Description
<code>getDisplayNumber()</code>	Obtains the displayable version of the credit card number (12 Xs and last 4 digits).

Table 4-14 transactionAmount Accessor Methods/Attributes

Method/Attribute	Description
getCurrency()	Obtains the currency associated with the transaction amount.
getValue()	Obtains the value of the transaction amount.

Listing 4-6 illustrates how these accessor methods/attributes are used within Java scriptlets along with the WebLogic Server JSP tags to display the information.

Listing 4-6 Using Accessor Methods/Attributes Within paymenthistory.jsp Java Scriptlets

```
<wl:repeat set="<%=paymentHistory%" id="paymentTransactionValue"
type="PaymentTransactionValue" count="100">

<tr>
  <td align="left">
    <div class="tabletext">
      <%=paymentTransactionValue.transactionDate%>
    </div>
  </td>
  <td align="center">
    <div class="tabletext">
      <%=paymentTransactionValue.transactionId%>
    </div>
  </td>
  <td align="center">
    <div class="tabletext">
      <%=paymentTransactionValue.creditCard.getDisplayNumber()%>
    </div>
  </td>
  <td align="right">
    <div class="tabletext">
      <%=paymentTransactionValue.transactionAmount.getCurrency()%>
      <%=WebflowJSPHelper.priceFormat(paymentTransactionValue.
        transactionAmount.getValue())%></div>
    </td>
</tr>

</wl:repeat>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see “[JSP Tag References](#)” in the *BEA WebLogic Commerce Server and WebLogic Personalization Server* documentation.

Form Field Specification

No form fields are used in the `paymenthistory.jsp` template.

Input Processors

This section provides a brief description of each Input Processor associated with the Customer Self-Service JSP template(s).

SelectOrderForViewingIP

Class Name	<code>com.beasys.commerce.ebusiness.order.webflow.SelectOrderForViewingIP</code>
Description	Reads the order identifier and uses it to locate an <code>OrderValue</code> object from the <code>ORDER_HISTORY</code> attribute, then places the object in the Pipeline session.
Required HttpServletRequest Parameters	<code>HttpRequestConstants.ORDER_IDENTIFIER</code> (code location: <code>orderhistory.jsp</code> template.)
Required Pipeline Session Attributes	<code>PipelineSessionConstants.ORDER_HISTORY</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.ORDER_ADJUSTMENT</code> <code>PipelineSessionConstants.SELECTED_ORDER</code>
Removed Pipeline Session Attributes	None
Validation	None
Exceptions	<code>ProcessingException</code> , thrown when the order identifier is not found in the HTTP request.

Pipeline Components

This section provides a brief description of each Pipeline component associated with the Customer Self-Service JSP template(s).

Note: Some Pipeline components extend other, base Pipeline components. For more information on the base classes, see the [Javadoc](#).

RefreshOrderHistoryPC

Class Name	<code>com.beasys.commerce.ebusiness.order.pipeline.RefreshOrderHistoryPC</code>
Description	Uses the <code>USER_NAME</code> Pipeline session attribute to obtain the customer's order history.
Contained in	RefreshOrderHistory Pipeline
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.ORDER_HISTORY</code>
Removed Pipeline Session Attributes	None
Type	Java class
JNDI Name	None
Exceptions	<p><code>PipelineFatalException</code>, thrown when required Pipeline session attributes are not available.</p> <p><code>InvalidPipelineSessionStateException</code>, thrown if the username does not exist in the Pipeline session.</p>

RefreshPaymentHistoryPC

Class Name	<code>com.beasys.commerce.ebusiness.order.pipeline.RefreshPaymentHistoryPC</code>
Description	Uses the <code>USER_NAME</code> Pipeline session attribute to obtain the customer's payment history.
Contained in	RefreshPaymentHistory Pipeline
Required Pipeline Session Attributes	<code>PipelineSessionConstants.USER_NAME</code>
Updated Pipeline Session Attributes	<code>PipelineSessionConstants.PAYMENT_HISTORY</code>
Removed Pipeline Session Attributes	None
Type	Java class
JNDI Name	None
Exceptions	<code>PipelineFatalException</code> , thrown when required Pipeline session attributes are not available. <code>InvalidPipelineSessionStateException</code> , thrown if the username does not exist in the Pipeline session.

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