



IBM Software Group

WebSphere® Commerce Feature Pack 2

Portal Integration

Configure Sample Portlets



@business on demand.

© 2007 IBM Corporation
Updated May 21, 2007

Welcome to the presentation for WebSphere Commerce Feature Pack 2, the Portal integration feature. This presentation discusses how to configure the sample portlets.

Agenda

- Establish prerequisite environment
- Locate sample portlets
- Install and configure sample portlets on WebSphere Portal server environment
- Install and configure sample portlets on WebSphere Portal development environment



This presentation discusses establishing a prerequisite environment, how to locate the portlet samples, and how to deploy sample portlets in both a server and development environment.

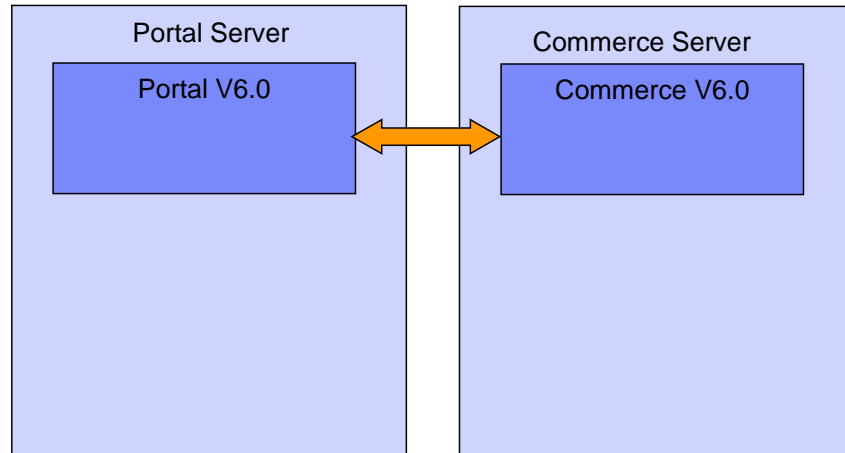
Section

Establish prerequisite environment



This section discusses the prerequisite environment necessary to install and configure the sample portlets.

Portal server environment



The Portal server environment represents the same environment as would be used for a production server environment. The largest blocks in the diagram represent two separate systems. These systems could run on the same machine if the machine were powerful enough. The Portal server runs the sample portlet applications which connect to the Commerce server as a client.

Portal server prerequisite environment

- WebSphere Portal Server V6.0
 - ▶ Latest fix pack recommended but not required
- WebSphere Commerce V6.0
 - ▶ Fix pack 2 and feature pack 2 installed
 - ▶ Component services feature enabled
 - ▶ LDAP user registry and proper security type enabled
 - Basic authentication
 - ▶ Consumer Direct starter store published and operational

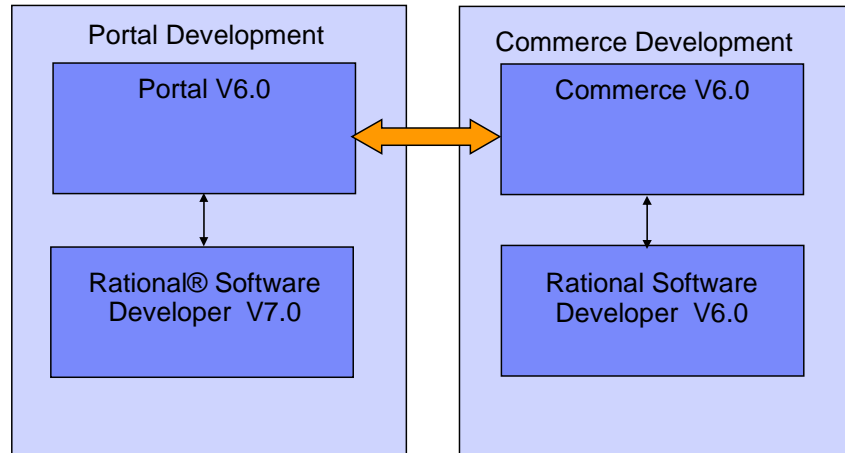
Before installing the sample portlets on WebSphere Portal Server, insure your server environment meets the prerequisites.

WebSphere Portal Server must be at version 6.0. You may choose to install the latest fix pack, but this is not required.

The WebSphere Commerce Server must be at version 6.0 and have fix pack 2 and feature pack 2 installed. The component services feature must be enabled. The server must be configured to use an LDAP server as a user registry, and basic authentication must be configured.

The Consumer Direct starter store must be published and operational. Also note the URL of the Consumer Direct starter store. This URL contains information regarding catalog and store IDs that are used to configure the sample portlets.

Portal development environment



The Portal development environment is more complex than the server environment. Each system consists of two subsystems, namely a Rational® Software Developer product and a test server. The Portal development system has a Rational Software Developer V7.0 workbench containing portal development projects which are run on a Portal V6.0 test server.

The Commerce development system has a Rational Software Developer V6.0 workbench containing Commerce development projects which are run on a Commerce V6.0 test server.

Portal developer prerequisite environment

- Portal development system
 - ▶ Rational Software Developer product V7.0
 - ▶ WebSphere Portal Server V6.0
 - Latest fix pack recommended but not required
- Commerce development system
 - ▶ Rational Software Developer product V6.0
 - ▶ WebSphere Commerce Developer V6.0
 - Fix pack 2 and feature pack 2 installed
 - Component services feature enabled
 - Proper security type enabled
 - Consumer Direct starter store published and operational



Before installing the sample portlets on WebSphere Portal Server, insure your development environment meets the prerequisites.

The Portal development system has 2 products installed, Rational Software Developer V7.0 and WebSphere Portal Server V6.0

Rational Software Developer must be at version 7.0

WebSphere Portal Server must be at version 6.0. You may choose to install the latest fix pack, but this is not required.

The WebSphere Commerce Server must be at version 6.0 and have fix pack 2 and feature pack 2 installed. The component services feature must be enabled. The test server may be configured with either simulated single sign-on or LDAP basic authentication. Also note the type of authentication because you need this information in order to configure the sample portlets.

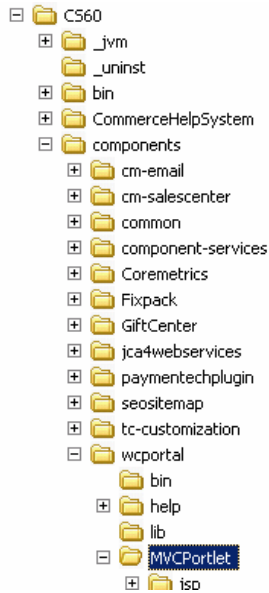
The Consumer Direct starter store must be published and operational. Also note the URL of the Consumer Direct starter store. This URL contains information regarding catalog and store IDs that are used to configure the sample portlets.

Section

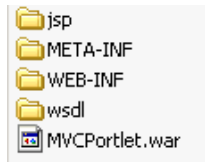
Locating sample portlets

This section discusses how to find the sample portlet files.

Finding sample portlets

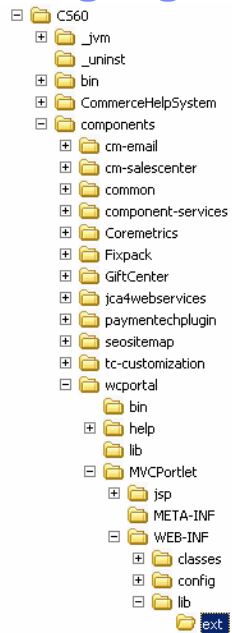


- Install MVCPortlet.war into Portal Server
or
- Import MVCPortlet.war into Portal Developer on Rational Application Developer V7.0



You need to locate files in your WebSphere Commerce installation that are to be copied to your Portal system. The WebSphere Commerce sample portlets are contained in a file called MVCPortlet.war. A subsequent slide shows you how to install this file to get access to the sample portlets.

Finding login module for basic authentication



- Configure MVCPortletExt.jar as login module only if using Basic Authentication security

If you are using Basic Authentication security, you need to copy MVCPortletExt.jar to your Portal system.

A subsequent slide shows you how to configure Basic Authentication security using this file.

Section

Installing and configuring sample portlets on WebSphere Portal server environment



This section discusses how to install and configure the sample portlets on a WebSphere Portal server environment.

Deploying sample portlets summary

- Perform using Portal administration console
 - ▶ Install MVCPortlet.war Web module
 - ▶ Assign portlet access to a class of users or specific users
 - ▶ Arrange portlets on page
 - ▶ Create portlet wires between portlets to allow portlet interaction
 - ▶ Configure security variables and default store ID for each portlet
- Perform using application server administration console
 - ▶ Change Web services client URL bindings
 - ▶ Configure Web services client security bindings
 - ▶ Register the external content URL reference
 - ▶ For basic authentication, register login module MVCPortletExt.jar
- Perform using ikeyman security certificate utility
 - ▶ Import Commerce Web server certificates
- Restart Portal server upon completion



This is a summary of steps you follow to deploy and configure the sample portlets in a production server environment. Later in this presentation you learn more details on each of these steps.

The first section of steps is performed using the Portal Server administration console. This section of steps consists of installing the MVCPortlet.war Web module, assigning access to specific users, arranging the portlets on a portal page, creating portlet wires between the portlets to allow portlet interaction, and configuring variables for security settings and default store ID.

The second section of steps is performed using the WebSphere Application Server administration console. This section of steps consists of changing the Web services client URL bindings, configuring Web services client security bindings, registering the external content URL reference, and registering a login module. Login module registration is needed only if you are using basic authentication security.

The final section of steps is performed using the ikeyman utility. Ikeyman is used to export the certificate from the Web server key files on the Commerce system. The certificate is then imported into the key files on the Portal system.

Upon completion of all the steps, rebooting the Portal server is required.

Deploying sample portlets summary

- Perform using Portal administration console
 - ▶ Install MVCPortlet.war Web module
 - ▶ Assign portlet access to a class of users or specific users
 - ▶ Arrange portlets on page
 - ▶ Create portlet wires between portlets to allow portlet interaction
 - ▶ Configure security variables and default store ID for each portlet
- Perform using application server administration console
 - ▶ Change Web services client URL bindings
 - ▶ Configure Web services client security bindings
 - ▶ Register the external content URL reference
 - ▶ For basic authentication, register login module MVCPortletExt.jar
- Perform using ikeyman security certificate utility
 - ▶ Import Commerce Web server certificates



This next section discusses the detailed steps performed on the Portal administration console.

IBM Software Group IBM

Install MVCportlet Web module

Welcome
 Portal User Interface
 Manage Pages
 Themes and Skins
 Portlet Management
 Web Modules
 Applications

Manage Web Modules
 Installing a Web module, Step 1: Select WAR file.
 Click the Browse button to specify the location of the WAR file to install.
 button to go back to the Web module page.
 Directory:

Portlet applications	Portlets
WebSphere Commerce Portlet	WebSphere Commerce Search Portlet
	WebSphere Commerce Catalog Portlet
	WebSphere Commerce Product Portlet
	WebSphere Commerce Cashier Portlet
	WebSphere Commerce MyCart Portlet
	WebSphere Commerce MyOrder Portlet
	WebSphere Commerce MyAccount Portlet




- Logon as administrator
- Install wizard under Portlet Management – Web Modules

14




Configuring Sample Portlets © 2007 IBM Corporation

The first step to installing the MVCPortlet.war Web module is to logon to the Portal administration console as a Portal administrator. You then run the installation wizard found in the left navigation bar under Portlet Management > Web Modules. The wizard prompts you for the location of the Web module file, confirms the portlets contained in the module, and then finishes.

Assign access to portlet

Page 1 of 1	
Name	Status
MVCPortlet.war	  

- Edit access in MVCPortlet.war
- Edit user role
- Add new permission for user

Editor	<input checked="" type="checkbox"/>	
Privileged User	<input checked="" type="checkbox"/>	
User	<input checked="" type="checkbox"/>	

 Add

MVCPortlet.war ▶ User

Members in the Role
All Authenticated Portal Users

You assign access to each portlet in the Web module. You permit access by selecting the MVCPortlet.war, which has already been installed, select the key icon, and then add resource permissions. The example here shows adding permission for all authenticated users. You repetitively add access for each of the portlets.

Arrange portlets

My pages Add, Edit, Delete, and Reorder pages

Title	Unique name	Status	Page 1 of 1			
WebSphere Commerce	6_R2P14GL108FG8021A86EHU2024	Active				

Roles	Allow Propagation	Allow Inheritance	Edit Role
Administrator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Security Administrator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Delegator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Manager	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Editor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Privileged User	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
User	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Resource Permissions

[+ Add](#)
[WebSphere Commerce > User](#)

Members in the Role	Delete Member from Role	Inherited
All Authenticated Portal Users		






- Create new page
- Permit access to page

It is your choice on how to arrange the navigation to the portlets. One way is to create a new page and permit access to this page.


Arrange portlets

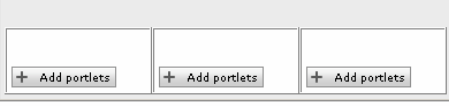
- Edit page layout

My pages Add, Edit, Delete, and Reorder pages


Title	Unique name	Status	
WebSphere Commerce	6_R2P14GL108FG8021A86EHU2024	Active	    



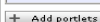
Page 1 of 1

 Show Portlet Rule Mappings



Page title: WebSphere Commerce

 Show Portlet Rule Mappings

Commerce Search	Commerce Cashier	My Commerce Cart
My Commerce Account	Commerce Catalog	My Commerce Order
	Commerce Product	
		

17

Configuring Sample Portlets © 2007 IBM Corporation

Arranging portlets on the page is also your choice. This example shows an arrangement of three columns on the page and the seven portlets are distributed across the three columns.

Create portlet wires

- Edit page - Wires Tab
- Select pull-down menus to select source and target
- + to add more wires

My pages Add, Edit, Delete, and Reorder pages

Title	Unique name	Status
WebSphere Commerce	6_R2P14GL108F08021AB6EHU2024	Active

Page 1 of 1

Portlet Wiring Tool

EJPAR2050I: No wires have been created on the page.

Wires are connections between portlets. The portlet wiring tool allows you to view, add, and delete wires. To add a new wire between two portlets, use the controls in the table below to specify the wire details and click Add Wire.

Wires for page: **WebSphere Commerce**

Source portlet	Sending	Target page	Target portlet	Receiving	Wire Type
Select One...		WebSphere Commerce (6_R2P14GL108F08021AB6EHU2024)			Personal

Portlet wires are a means to let portlets communicate with other portlets. You configure wires by editing the page and selecting the wires tab. You configure wires by means of pull-down menus. You add additional wires with the + icon.

Completed portlet wiring

- Add these 8 portlet wires

Portlet Wiring Tool

Wires are connections between portlets. The portlet wiring tool allows you to view, add, and delete wires. To add a new wire between two portlets, use the controls in the table below to specify the wire details and click Add Wire.

Wires for page: **MVCPortlet**

Source portlet	Sending	Target page	Target portlet	Receiving	Wire Type
WebSphere Commerce - Catalog	catGroupId	MVCPortlet	WebSphere Commerce - Product	Catalog_Product.catGroupId	Public
WebSphere Commerce - Cashier	catEntryId	MVCPortlet	WebSphere Commerce - Product	Cashier_Product.catEntryId	Public
WebSphere Commerce - My Cart	orderId	MVCPortlet	WebSphere Commerce - My Account	MyCart_MyAccount.orderId	Public
WebSphere Commerce - Catalog	catalogId	MVCPortlet	WebSphere Commerce - Product	Catalog_Product.catalogId	Public
WebSphere Commerce - My Cart	orderId	MVCPortlet	WebSphere Commerce - Cashier	MyCart_Cashier.orderId	Public
WebSphere Commerce - My Cart	catEntryId	MVCPortlet	WebSphere Commerce - Product	MyCart_Product.catEntryId	Public
WebSphere Commerce - My Order	catEntryId	MVCPortlet	WebSphere Commerce - Product	MyOrder_Product.catEntryId	Public
WebSphere Commerce - Search	criteria	MVCPortlet	WebSphere Commerce - Product	Search_Product.criteria	Public

Select One ... | MVCPortlet (ibm.portal.rational.portlets.WebSphere.Commerce.Portlet.webmod) | Personal

When all the wiring is complete, you should have 8 wires.

Configure default store ID




































Manage Portlets

Search by: Description contains

Search: Commerce

Search

- Portlet Management
- Find Commerce portlets
- Configure each portlet

Title	Unique name	Provided	Remote portlet	Status	
Commerce Search					    
Commerce Product					    
My Commerce Order					    
My Commerce Cart					    
My Commerce Account					    
Commerce Catalog					    
Commerce Cashier					    



You also need to configure properties for each portlet. You configure by selecting the configure icon.

Configure default store ID

- Modify StoreID in .ContextDefault-StoreId field to match your Commerce store
- Add .AuthenticationType for basic security configuration.

Manage Portlets

Configure portlet WebSphere Commerce - My Order

Parameters and Values Enter a new parameter and value pair in the blank fields to create a new parameter for this portlet, or click Delete to remove a parameter and value. Click OK to keep your changes or Cancel to quit.

New parameter: New value: * Add

Parameter	Value	
com.ibm.portal.pagecontext.enable	true	
.ContextDefault-storeId	10001	
com.ibm.portal.propertybroker.wsdllocation	/wsdl/MyOrder.wsdl	
.AuthenticationType	basic	

This is an example of modifying the properties for the My Order portlet. You add a property for the authentication type you want to run. This example shows setting the property called .AuthenticationType to the value of basic.

You edit the existing field named .ContextDefaultStoreId to match the store ID of your store.

Deploying sample portlets summary

- Perform using Portal administration console
 - ▶ Install MVCPortlet.war Web module
 - ▶ Assign portlet access to a class of users or specific users
 - ▶ Arrange portlets on page
 - ▶ Create portlet wires between portlets to allow portlet interaction
 - ▶ Configure security variables and default store ID for each portlet
- Perform using application server administration console
 - ▶ Change Web services client URL bindings
 - ▶ Secure business context service transport
 - ▶ Register the external content URL reference
 - ▶ For basic authentication, register login module MVCPortletExt.jar
- Perform using ikeyman security certificate utility
 - ▶ Import Commerce Web server certificates



This section reviews the detailed steps performed on the WebSphere Application Server administration console.

Deployment using application server console

- Change settings for portlet Web module
 - ▶ Change defaults for Web services client URL bindings
 - ▶ Secure business context service transport
- Register the external content URL reference in the default URL provider
- For basic authentication, register JAAS login module MVCPortletExt.jar

Note: The MVCPortlet application is identified by a name starting with Catalog_Se..... in the Enterprise Applications list.



<input type="checkbox"/>	Bookmarks PA dlwvynb
<input type="checkbox"/>	CSV File Viewer PA dlwytat
<input checked="" type="checkbox"/>	Catalog Se ce Handler PA l3vzsz0
<input type="checkbox"/>	Clients Manager PA dlwvi61

Using the WebSphere Application Server administration console, you change settings for the Web services client. You change the URL bindings and the security bindings. The next step is to register the Store Service URL reference in the URL provider. You configure basic authentication by registering a JAAS login module using the provided sample MVCPortletExt.jar.

Note that you must first locate the enterprise application to do the steps. WebSphere Portal assigns an enterprise application name that is not at all related to the Web module name, which is MVCPortlet.war. The enterprise application name is a randomly assigned unique name, which means it will be different on every invocation. The name always begins with the characters Catalog_Se.

Update Web services client URL bindings

Related Items

- Web modules

[MVCPortlet.war](#)

Additional Properties

- [View Module Class Loader](#)
- [Target mappings](#)
- [View Deployment Descriptor](#)
- [Web services client bindings](#)

- Find MVCPortlet.war
- Override Endpoint URL for each service to customize for Commerce server host and port

Web Service	WSDL Filename	Port Mappings	Port Information
OrderServices	Use default (WEB-INF/wsd/OrderServices.wsdl)	Edit...	Edit...
MemberServices	Use default (WEB-INF/wsd/MemberServices.wsdl)	Edit...	Edit...
ContractServices	Use default (WEB-INF/wsd/ContractServices.wsdl)	Edit...	Edit...
CatalogServices	Use default (WEB-INF/wsd/CatalogServices.wsdl)	Edit...	Edit...
BusinessContextServiceWrapperService	Use default (WEB-INF/wsd/BusinessContextServiceW)	Edit...	Edit...

Port Information for Web service OrderServices

Port	Request Timeout (seconds)	Overridden Endpoint URL
OrderServices	<input type="text"/>	http://wsbeta147.austin.ibm.com:80/webapp

To change the Web services client URL bindings, select Web modules and then select the MVCPortlet module. Under additional properties, you select Web services client bindings. In this screen, you edit Port Information and override the Endpoint URL. You specify a new host name and port number that matches the WebSphere Commerce system.

IBM Software Group IBM

Secure Business Context Service transport

Security

- Global security
- SSL

SSL configuration repertoires
Defines a list of Secure Sockets Layer (SSL) Preferences

Select Alias

- WSBET/DefaultSSLSettings

Create new JSSE repertoire

General Properties

* Alias
WCSSL

Client authentication

Security level
HIGH

Cipher suites

- SSL_RSA_WITH_RC4_128_MD5
- SSL_RSA_WITH_RC4_128_SHA
- SSL_RSA_WITH_AES_128_CBC_SHA
- SSL_RSA_WITH_DES_CBC_SHA
- SSL_RSA_FIPS_WITH_DES_CBC_SHA

Cryptographic token

Provider

Predefined JSSE provider
Select provider
IBMJSSE2

Custom JSSE provider
Custom provider

Protocol
SSL

Key and trust files from Commerce Server

Key file

Key file name
c:\KEYFILES\DummyServerKe

Key file password

Key file format
JKS

Trust file

Trust file name
c:\KEYFILES\DummyServerTri

Trust file password

Trust file format
JKS

Configuring Sample Portlets 25 © 2007 IBM Corporation

To secure the Business Context Service transport, create a new JSSE repertoire. First select SSL under Security. You then create a new JSSE repertoire. In the new repertoire screen, you assign an arbitrary name and specify the location of the trust and key store files that you had previously copied from the WebSphere Commerce Server.

Secure Business Context Service transport

- Find MVCPortlet.war module
- Enable Web service for SSL

Additional Properties

- [View Module Class Loader](#)
- [Target mappings](#)
- [View Deployment Descriptor](#)
- [Web services client bindings](#)
- [Web services implementation scope](#)
- [Web services: Client security bindings](#)



BusinessContextServiceWrapper	service/BusinessContextServiceWrapperService	Not applicable	Not applicable	<input type="button" value="Edit"/>	<input type="button" value="Edit"/>
-------------------------------	--	----------------	----------------	-------------------------------------	-------------------------------------

General Properties

HTTP SSL enabled

HTTP SSL configuration

JWSBET/WCSSL

The second step in securing the Business Context Service transport is to enable the Web service for SSL. Select Web services: Client security bindings. In the next screen, select HTTP SSL enabled and select the JSSE repertoire that you created in the previous step.

Register external content URL

- Find default URL provider
- Add new reference

Name: External Content

JNDI: url/com/ibm/commerce/foundation/client/portal/ExternalContent

Specification: http://<host>:<port>/wcsstore

The screenshot displays the configuration interface for registering an external content URL. On the left, a table lists existing providers:

Select	Name
<input checked="" type="checkbox"/>	Default URL Provider
<input type="checkbox"/>	IEHS Reference

Below the table, it indicates "Total 2". A blue arrow points to the "Default URL Provider" row. Below the table are "New" and "Delete" buttons, with another blue arrow pointing to the "New" button. A context menu is open over the "New" button, showing a "Select Name" dropdown with "None" selected and "Total 0" below it.

On the right, the configuration form for the new reference is shown:

- * Name: External Content
- * JNDI name: /client/portal/ExternalContent
- Description: (empty text area)
- Category: (empty text field)
- * Specification: http://AIMCP025:80/wcsstore

At the bottom of the console, the text "Configuring Sample Portlets" and "© 2007 IBM Corporation" is visible, along with a page number "27".

To register the external content URL, select Default URL provider under Resources. Then select New and specify the exact name External Content with the exact JNDI name. The specification should match your WebSphere Commerce server host name and port number.

Register login module

- Create new login module

- ▶ Class

com.ibm.commerce.foundation.internal.client.portal.modules.MVCPortletLoginModule

[Global security](#) > [Application login configuration](#) > [Portal_LTPA](#) > [JAAS login modules](#)

Each entry in the login configuration must contain at least one login module. However, you can define more than one login module for a login configuration. If you define more than one login module for a login configuration, they are processed in the order that they are defined.

Preferences

New		Delete		Set Order	
Select Module class name					
<input type="checkbox"/>	com.ibm.ws.security.server.lm.ltpaLoginModule				
<input type="checkbox"/>	com.ibm.ws.security.server.lm.wsMapDefaultInbound				
Total 2					

[Global security](#) > [Application login configuration](#) > [Portal_LTPA](#) > [JAAS login modules](#) > **New**

Each entry in the login configuration must contain at least one login module. However, you can define more than one login module for a login configuration. If you define more than one login module for a login configuration, they are processed in the order that they are defined.

Configuration

General Properties

* Module class name

Use login module proxy

Authentication strategy

Apply OK Reset Cancel

The additional properties will not be available until the general properties for this item are saved.

Additional Properties

Custom properties

Registering a new login module is done under the Global security section. Select [Global security](#) > [Application login configuration](#) > [Portal_LTPA](#) > [JAAS login modules](#). Create a new module and specify the module class name.

Register login module

- Add custom property for resource environment provider
 - ▶ Name: authentication.basic.login.target
 - ▶ Value: Portal_LTPA

Resource environment providers

A resource environment provider used to create resource env entries.

Scope: Cell=**AIMCP235Cell**, Node=**AIMCP235Node**

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, [see the scope settings help](#)

Cell
AIMCP235Cell

Node
AIMCP235Node

Resource environment providers > WP AuthenticationService > Custom properties

Custom properties that may be required for resource providers and resource factories. For example, most database vendors require additional custom properties for data sources that access the database.

Preferences

Select	Name	Value	Description	Required
<input type="checkbox"/>	authentication.basic.login.target	Portal_LTPA		false
Total 1				



A related step to registering a new login module is to add a custom property for resource environment providers. Under the Resource providers section select WP_AuthenticationService and add the custom property listed in the slide.

Deploying sample portlets summary

- Perform using Portal administration console
 - ▶ Install MVCPortlet.war Web module
 - ▶ Assign portlet access to a class of users or specific users
 - ▶ Arrange portlets on page
 - ▶ Create portlet wires between portlets to allow portlet interaction
 - ▶ Configure security variables and default store ID for each portlet
- Perform using application server administration console
 - ▶ Change Web services client URL bindings
 - ▶ Secure business context service transport
 - ▶ Register the Store Service URL reference
 - ▶ For basic authentication, register login module MVCPortletExt.jar
- Perform using ikeyman security certificate utility
 - ▶ Import Commerce Web server certificates



This section reviews the detailed steps performed with the ikeyman utility console.

Import Web server certificates

- Import Commerce Web server certificates into trust file on Portal server
 - ▶ Run <WAS_HOME>/ikeyman
 - ▶ Copy keyfile from Commerce system
 - ▶ Open keyfile and extract certificate
 - ▶ Open trustfile copied earlier
 - ▶ Add certificate to trust file



The operation to import the WebSphere Commerce Web server certificates is performed using the ikeyman utility. First copy the Web server certificate file to the Portal system. Then start ikeyman, and open the certificate file and extract the certificate. Then open the trust file that you specified when creating the JSSE repertoire. Copy the extracted certificate and add it to the trust file. Save the trust file.

Section

Installing and configuring sample portlets in the developer environment



This section discusses installing and configuring the sample portlets in the Portal developer environment.

Deploying sample portlets summary

- Perform using developer workbench
 - ▶ Create test Portal server
 - ▶ Import MVCPortlet.war into portlet project
 - ▶ Create TCP/IP monitor
 - ▶ Configure security specific fields
 - ▶ Configure default store ID for each portlet
- Perform using Portal administration console – steps similar to server environment
 - ▶ Arrange portlets on page in a pleasing arrangement
 - ▶ Create portlet wires between portlets to allow portlet interaction
- Perform using WebSphere Application Server administration console
 - ▶ Create external content URL reference



Deploying the sample portlets in a developer environment is done using three different environments.

The Portal developer tools in Rational Software Developer are used to import the MVCPortlet.war module, configure the test environment, and configuring variables for default store ID and security settings.

The Portal administration console is used to do similar configuration steps as those for the server environment. However, the list of steps is shorter. The steps are arranging the portlets on the page, and creating the portlet wires.

The WebSphere Application Server administration console is used to create the external content URL reference.

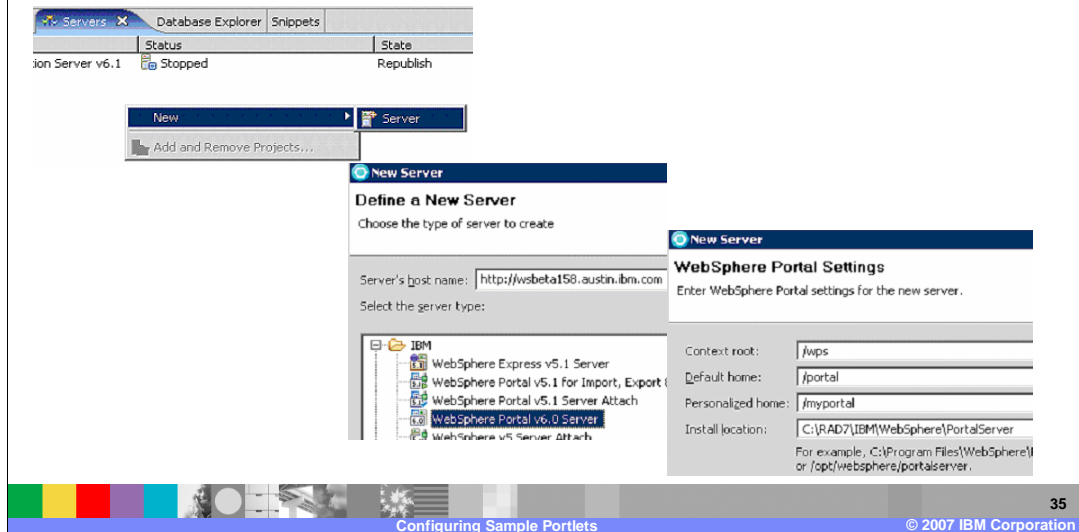
Deploying Sample Portlets Summary

- Perform using developer workbench
 - ▶ Create test Portal server
 - ▶ Import MVCPortlet.war into portlet project
 - ▶ Create TCP/IP monitor
 - ▶ Configure security specific fields
 - ▶ Configure default store ID for each portlet
- Perform using Portal administration console – steps similar to server environment
 - ▶ Arrange portlets on page in a pleasing arrangement
 - ▶ Create portlet wires between portlets to allow portlet interaction
- Perform using WebSphere Application Server administration console
 - ▶ Create external content URL reference

The section discusses using the developer workbench.

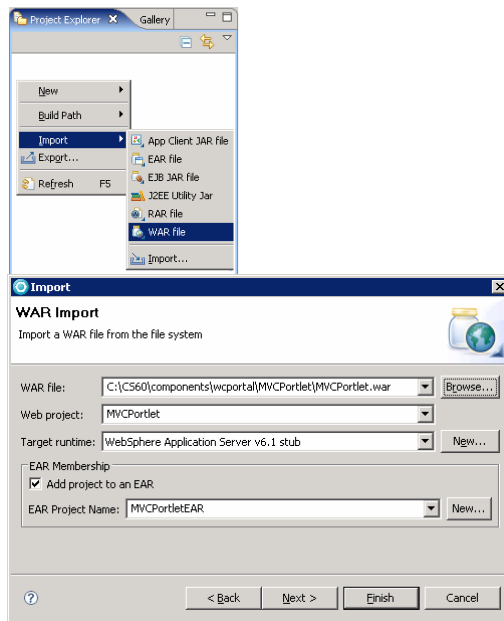
Set up Portal test server

- Create new Portal test server
- Configure test server

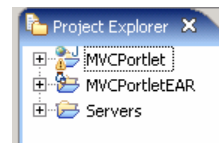


A portal test server is configured by starting the new server wizard from the servers view. Select WebSphere Portal V6.0 for the server type.

Importing Sample Portlet Project Into Developer



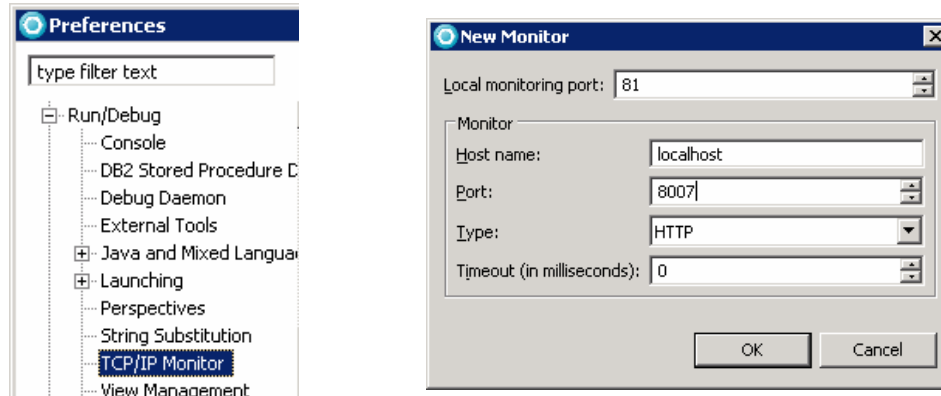
- Import
- WAR file type
- Assign WebSphere Portal V6.0 as target runtime
- Finish with 3 resultant projects



To import the sample portlet project, start the file import wizard. Navigate to the MVCPortlet.war sample file in the WebSphere Commerce installation. If the Commerce installation is on a different system, you first copy the MVCPortlet.war file to the system running your Rational Software Developer. On the next screen, select the WebSphere Portal V6.0 test server that you created in a previous step. When the wizard finishes, you have a MVCPortlet project, an MVCPortletEAR project, and the Server project that you created in the previous step.

Create TCP/IP Monitor

- TCP/IP monitor ports
 - ▶ Listen on 81
 - ▶ Forward to 8007



The TCP/IP monitor is created in the workbench preferences. Set the TCP/IP monitor to listen on port 81 and forward data to localhost on port 8007.

Configure security

- Edit portlet.xml and add variables for each portlet

The screenshot displays the IBM WebSphere Portal developer environment. On the left, the Project Explorer shows the MVCPortlet project structure, with the `portlet.xml` file selected in the `WEB-INF` directory. The main workspace shows the `Persistent Preference Store` configuration. The store contains several variables, with three highlighted in a red box: `.AuthenticationType`, `.SimulatedSSOUserName`, and `.SimulatedSSOPassword`. An `Edit Preference` dialog box is open, showing the configuration for the `.AuthenticationType` variable. The dialog has a `Name` field containing `.AuthenticationType` and a `Value` field containing `simulated`. The `Read only` checkbox is checked. The dialog includes `Add`, `Remove`, `Up`, and `Down` buttons, as well as `OK` and `Cancel` buttons.

Configuring security is done in the WebSphere Portal developer environment by editing the `portlet.xml` file. `Portlet.xml` is the portlet deployment descriptor found in the `WEB-INF` directory of the `MVCPortlet` project. You edit this file and add the Persistent Preference Store variables found in the slide example. You add these same variables for each portlet. The next slide shows you which variables and value combinations are legal.

Security variables

Variable name	Value for simulated single sign-on	Value for basic
.AuthenticationType	simulated	basic
.SimulatedSSOUserName	Valid user ID on your Commerce server	
.SimulatedSSOPassword	Valid user password on your Commerce server	

39

Configuring Sample Portlets

© 2007 IBM Corporation

The table in the slide shows legal variable combinations. If you are using simulated single sign-on, you must specify all three variables and the values in the corresponding column. If you are using basic as the authentication type, you only need to specify the .AuthenticationType variable.

Set default store ID

- Edit portlet.xml and modify .ContextDefault-storeId

The screenshot displays the 'Persistent Preference Store' configuration window. The main window has a title bar 'IBM Software Group' and 'IBM' logo. Below the title bar is the heading 'Set default store ID'. A bulleted list contains the instruction: '▪ Edit portlet.xml and modify .ContextDefault-storeId'. The main content area is titled 'Persistent Preference Store' and contains the text: 'Persistent preference values that may be used for customization and personalization by the portlet:'. Below this text is a list of preference names: '.ContextDefault-storeId', 'com.ibm.portal.pagecontext.enable', and 'com.ibm.portal.propertybroker.wsdllocation'. The first item is selected. To the right of the list are 'Add...' and 'Edit...' buttons. An 'Edit Preference' dialog box is open, showing the 'Name' field with the value '.ContextDefault-storeId' and the 'Values' field with the value '10101'. The dialog box also has 'Add', 'Remove', 'Up', and 'Down' buttons, a checked 'Read only' checkbox, and 'OK' and 'Cancel' buttons. At the bottom of the screenshot, there is a footer with a color bar, the text 'Configuring Sample Portlets', and '© 2007 IBM Corporation'.

Portlet.xml has a predefined variable named .ContextDefault-storeId. The default value is 10101, which corresponds to the storeId typically assigned to the first published store. In general you need to change this value to correspond to your Consumer Direct starter store. You can find the storeId embedded as a parameter in your store URL.

Deploying Sample Portlets Summary

- Perform using developer workbench
 - ▶ Import MVCPortlet.war into portlet project
 - ▶ Configure test Portal server
 - ▶ Create TCP/IP monitor
 - ▶ Configure security specific fields
 - ▶ Configure default store ID for each portlet
- Perform using Portal administration console – steps similar to server environment
 - ▶ Arrange portlets on page in a pleasing arrangement
 - ▶ Create portlet wires between portlets to allow portlet interaction
- Perform using WebSphere Application Server administration console
 - ▶ Create external content URL reference



The next part discusses using the Portal development tools to install and deploy the sample portlets.

Portlet deployment with portal administration console

- Arranging portlets same as server environment
- Creating wires same as server environment



The Portal Server administration console is used to arrange portlets and to create portlet wires. These steps are performed identically to those in the server environment.

Deploying sample portlets summary

- Perform using developer workbench
 - ▶ Configure test Portal server
 - ▶ Import MVCPortlet.war into portlet project
 - ▶ Create TCP/IP monitor
 - ▶ Configure security specific fields
 - ▶ Configure default store ID for each portlet
- Perform using Portal administration console – steps similar to server environment
 - ▶ Arrange portlets on page in a pleasing arrangement
 - ▶ Create portlet wires between portlets to allow portlet interaction
- Perform using WebSphere Application Server administration console
 - ▶ Create external content URL reference



The next part discusses using the WebSphere Application Server administration console to install and deploy the sample portlets.

Portlet deployment with application server console

- Steps not required
 - ▶ Changing Web services client URL bindings not necessary because default localhost:81 connects to listening TCP/IP monitor
 - ▶ Securing Business Context Service transport not necessary because it runs unsecured in developer environment
- Steps same as server
 - ▶ Create external content URL reference
 - ▶ For basic authentication, register login module MVCPortletExt.jar



For deployment to the developer environment, you omit some steps compared to those you would do for a server environment. It is not necessary to override the Web services client URL bindings because the default are localhost:81 as the host and port. This port connects to the TCP/IP monitor that you created earlier. The TCP/IP monitor forwards to localhost:80 which matches the Commerce server port. If your commerce system is not on the same system as your portal server, you need to override the host name.

You also omit securing the Business Context Service transport because it runs unsecured in the developer environment.

All the remaining steps that you perform in the WebSphere Application Server administration console are performed in the same manner as those in the server environment. The remaining steps you still need to do are to create the external content URL reference and to register the login module if you are configured for basic authentication.

Section

Summary and References

This section discusses the presentation summary and other information references.

Summary

- Prerequisite environment for running sample portlets
- Where portlet samples are located
- How to deploy sample portlets into server environment
- How to deploy sample portlets into developer environment



In summary, you learned about the prerequisite environment for running sample portlets, where you can find the portlet samples, and how to deploy the sample portlets in both a server and developer environment.

Feedback

Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

[Click to send e-mail feedback](#)



You can help improve the quality of IBM Education Assistant content by providing feedback.

Trademarks, copyrights, and disclaimers

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

Perform Rational WebSphere

Rational is a trademark of International Business Machines Corporation and Rational Software Corporation in the United States, Other Countries, or both.

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements or changes in the products or programs described herein at any time without notice.

Information is provided "AS IS" without warranty of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT. IBM shall have no responsibility to update this information. IBM products are warranted, if at all, according to the terms and conditions of the agreements (for example, IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided. Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products.

IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

© Copyright International Business Machines Corporation 2007. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.

