WebSphere® Commerce V6 Feature Pack 2

WebSphere Commerce Portal
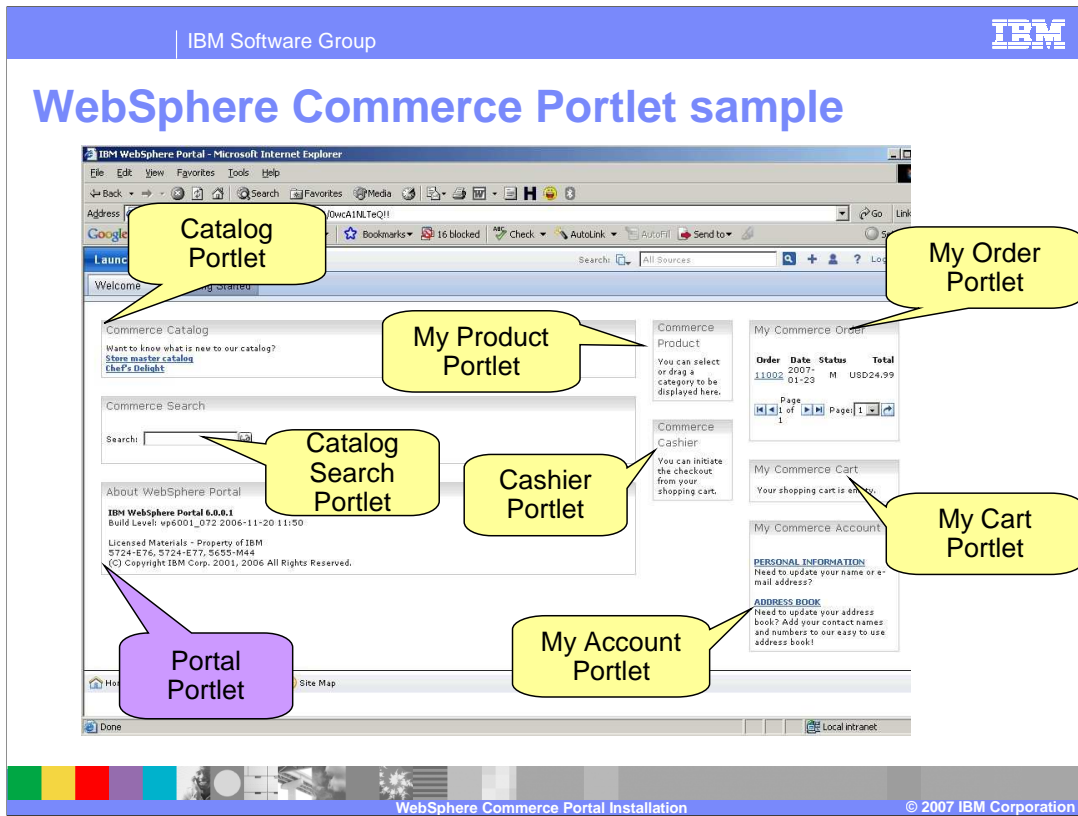
Install Overview

Welcome to the WebSphere Commerce V6 Feature Pack 2 WebSphere Commerce Portal installation overview presentation.

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Agenda

- End to end environment

- Example topologies

- WebSphere Portal and LDAP installation

- WebSphere Commerce and LDAP installation

- WebSphere Commerce Development Environment

- WebSphere Commerce Portal configuration and security

- Problem determination

WebSphere Commerce Portal Installation © 2007 IBM Corporation

This presentation discusses the end to end environment, example topologies, WebSphere Portal and LDAP installation, WebSphere Commerce and LDAP installation, the WebSphere Commerce Development Environment, WebSphere Commerce Portal configuration and security and problem determination.

End to end environment

| Internet | Internet DMZ | Production DMZ | Intranet | Development Environment |
| Uncontrolled Zone | Controlled Zone (Optional Security Tier) | Restricted Zone (Application Tier) | Trusted Zone (Business Tier) | |

WebSphere Commerce Portal Installation   © 2007 IBM Corporation

If you look at this environment from an end to end perspective, the main goal and focus is to setup communications between WebSphere Commerce, WebSphere Portal V6, an LDAP Server, WebSphere Commerce Developer and Rational Application Developer.

WebSphere Commerce Portlet sample

Catalog Portlet

My Order Portlet

My Product Portlet

Commerce Catalog

Want to know what is new to our catalog?
Store master catalog
Chef's Delight

Commerce Product

You can select or drag a category to be displayed here.

My Commerce Order

Order Date Status Total
11002 2007-01-23 M USD24.99

Page 1 of 1 Page: 1

Commerce Search

Search:

Catalog Search Portlet

Cashier Portlet

Commerce Cashier

You can initiate the checkout from your shopping cart.

My Cart Portlet

My Commerce Cart

Your shopping cart is empty.

About WebSphere Portal

IBM WebSphere Portal 6.0.0.1
Build Level: wp6001_072 2006-11-20 11:50

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My Commerce Account

PERSONAL INFORMATION
Need to update your name or e-mail address?

ADDRESS BOOK
Need to update your address book? Add your contact names and numbers to our easy to use address book!

My Account Portlet

Portal Portlet

Home   Site Map

WebSphere Commerce Portal Installation

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The goal after all installations and configurations have been set up is to have a working WebSphere Commerce Portlet application with seven WebSphere Commerce Portlets in yellow and one WebSphere Portal Portlet in purple.

Section

Topology

WebSphere Commerce Portal Installation

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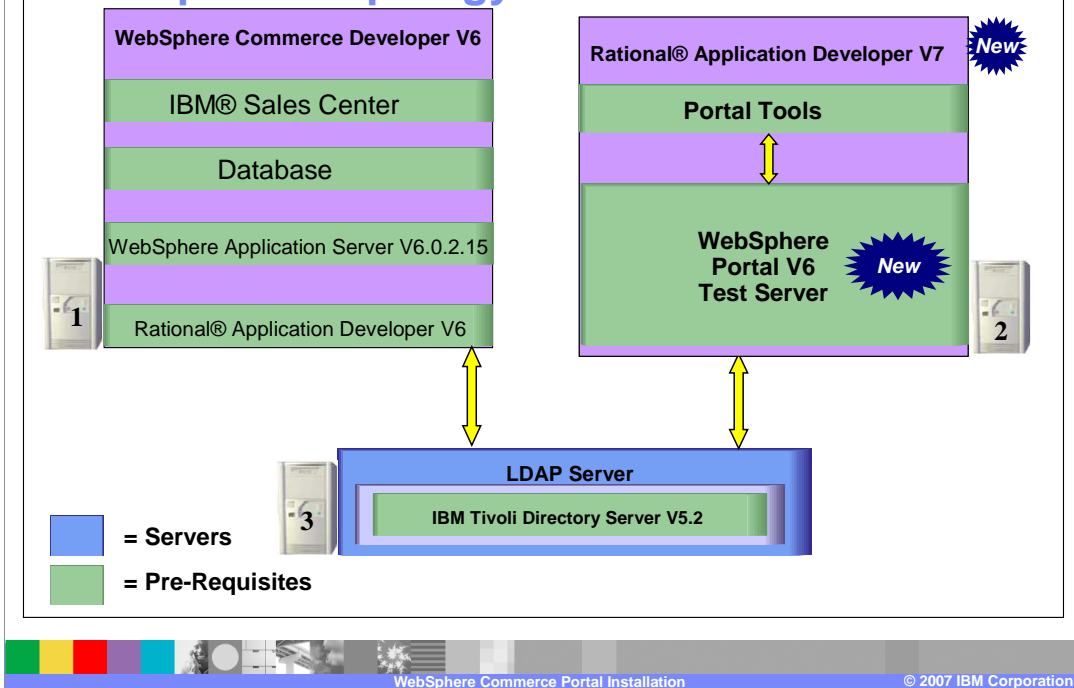This section shows the various topologies in a WebSphere Commerce Portal environment.
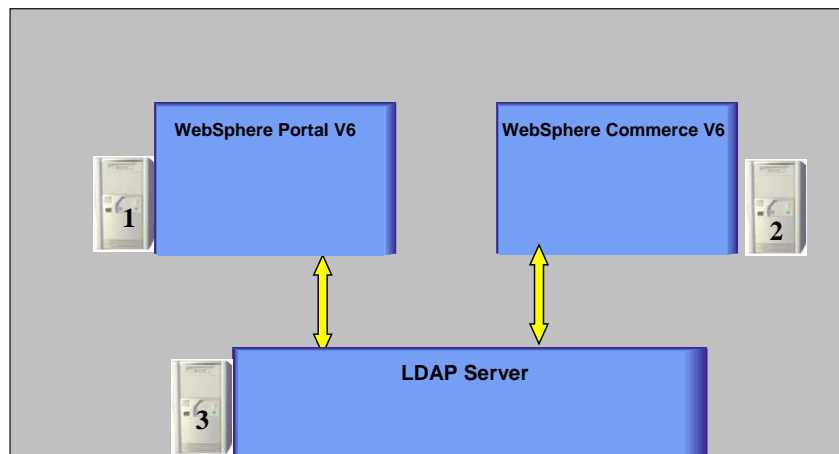
This slide displays product components for a production topology and shows that in an ideal environment, three separate systems should be used.

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Production minimum requirements

- WebSphere Commerce Enterprise V6 +
  - ▶ WebSphere Application Server V6.0.2.15
  - ▶ WebSphere Commerce Fix Pack 2 *New*
  - ▶ WebSphere Commerce Feature Pack 2 *New*

- WebSphere Portal V6 *New*
  - ▶ Latest fix pack recommended but not required

- LDAP Server
  - ▶ Tivoli® Directory Server V5.2 / V6 or
  - ▶ Microsoft® Active Directory 2003

For the production environment, WebSphere Commerce Fix Pack 2, WebSphere Commerce Feature Pack 2 and WebSphere Portal V6 are new requirements.

WebSphere Commerce supports other databases and LDAP servers. This slide depicts one variation and shows that in an ideal environment, three separate systems should be used in the development environment.

Developer minimum requirements

- Portlet development environment
  - ▶ Rational Application Developer V7 *New*
    - Portal tools enabled
    - No fixes required
  - ▶ WebSphere Portal V6 – for Portal Unit Test environment *New*
- WebSphere Commerce development environment
  - ▶ Rational Application Developer V6 +
    - Update 6.0.1.1 +ifix 001 + ifix 002 + ifix 003a
    - WebSphere Application Server fix pack 6.0.2.15
  - ▶ WebSphere Commerce Developer V6 +
    - WebSphere Commerce Fix Pack 2
    - WebSphere Commerce Feature Pack 2

For the development environment, Rational Application Developer V7 and the WebSphere Portal V6 test environment are new requirements.

Developer Feature Pack 2 install sequence

#	Step	Description
10	WebSphere Commerce Developer Feature Pack 2	Updates WebSphere Commerce Developer to Feature Pack 2
9	WebSphere Commerce Developer Fix Pack 2	Updates WebSphere Commerce Developer to 6.0.0.2
8	WebSphere Commerce Developer V6	WebSphere Commerce Developer Environment
7	IBM Sales Center	Installs IBM Sales Center Client
6	DB2 V8.2.3	
5	WebSphere Application Server V6 Runtime fixes	Updates Runtime in Rational Application Developer to 6.0.2.15
4	WebSphere Application Server JRE Updates	Updates JRE in Rational Application Developer to 6.0.2.11
3	Rational Application Developer V6 Interim fixes	Updates Rational Application Developer V6.0.11 with fixes
2	Rational Application Developer Product Update Fix Pack 2	Updates Rational Application Developer Product Updater
1	Rational Application Developer V6	Installs Rational Application Developer V6

3
Fix001
Fix002
Fix003a

http://publib.boulder.ibm.com/infocenter/wchelp/v6r0m0/index.jsp?topic=/com.ibm.commerce.esupport.doc/html/Installation/swg21243206.html

This chart depicts the series of installation steps to arrive at the WebSphere Commerce Feature Pack 2 level.

For step 5, note that the installation of WebSphere® Commerce Developer 6.0 after applying WebSphere Application Server fix pack 6.0.2.10 or later results in a missing WebSphere Commerce test server. This is a known issue and can be resolved in one of three ways. The approach depicted here follows Solution 3 in the URL above.

Section

WebSphere Portal and LDAP server install

This section discusses establishing communication between WebSphere Portal V6 and the LDAP Server.

End to end environment - revisited
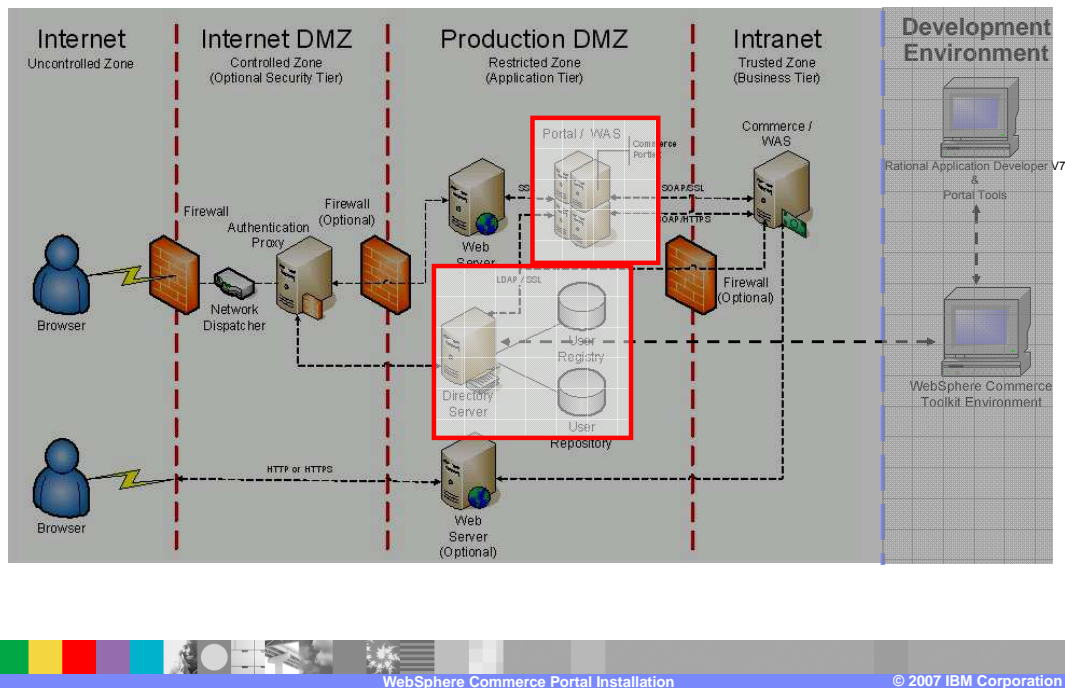
If you look at this environment from an end to end perspective, the main goal in this section is to focus on communications between WebSphere Portal V6 and one of the WebSphere Commerce supported LDAP Server.
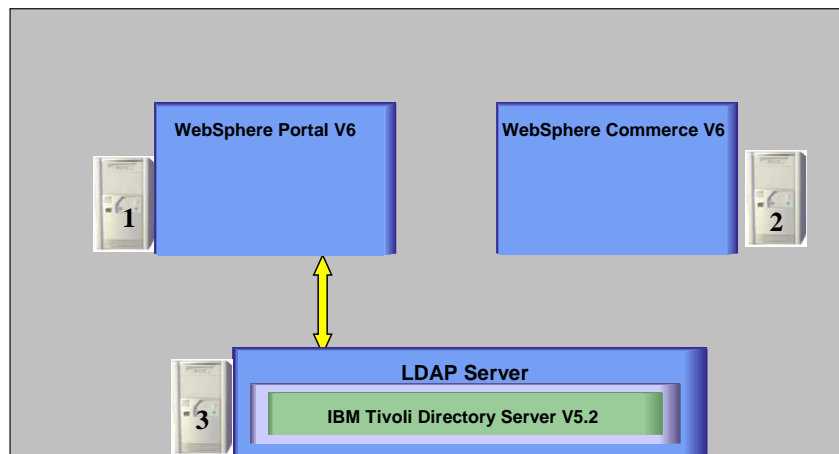
This slide depicts communication between WebSphere Portal V6 and the LDAP server.

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WebSphere Portal and LDAP installation steps

- Step 1: Install WebSphere Portal V6

- Step 2: Install and configure WebSphere Commerce supported LDAP server
  - ▸ Install LDAP server
  - ▸ Configure LDAP server

- Step 3: Use wizard to configure LDAP and enable Security for WebSphere Portal V6
  <Portal_Home>\config\wizard\configwizard.bat
  - ▸ Disable WebSphere Application Server and Portal Security
  - ▸ Enable WebSphere Portal Security with LDAP

WebSphere Commerce Portal Installation   **© 2007 IBM Corporation**

Establishing the WebSphere Portal and LDAP environment consists of three steps: installing WebSphere Portal V6, installing a WebSphere Commerce supported LDAP server and enabling communication between the portal server and the LDAP server. However, note that Step 3 involves two parts: Disabling Global Security and Enabling Portal Security with LDAP.

Section

WebSphere Commerce and LDAP server install

This section discusses establishing communication between the WebSphere Commerce Server and the LDAP Server.

End to end environment - revisited
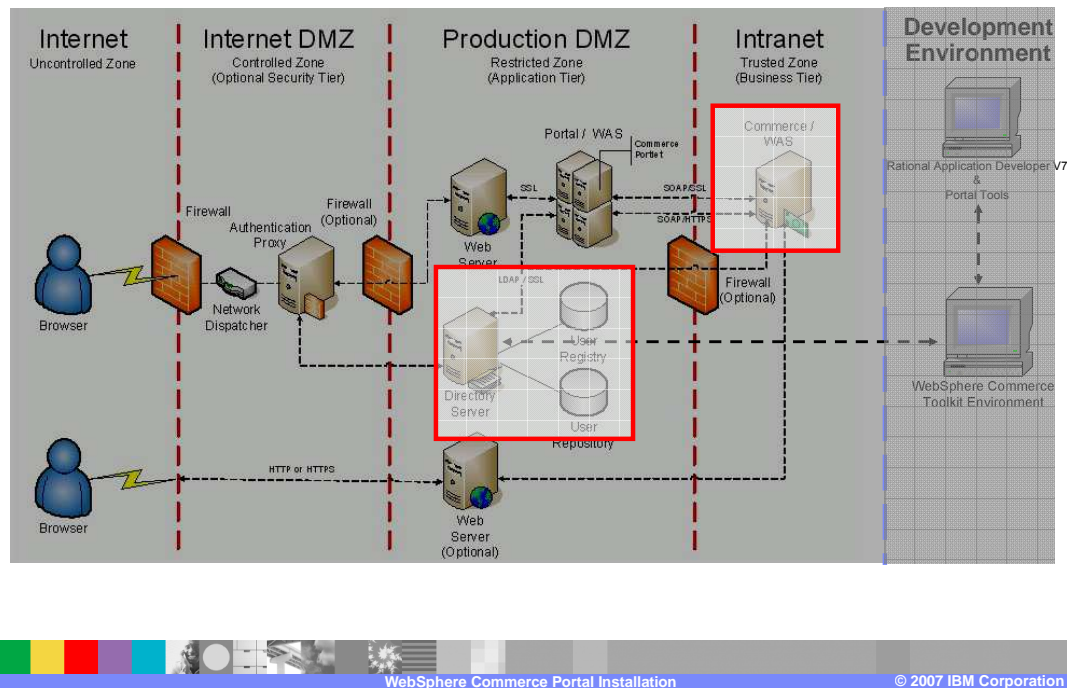
If you look at this environment from an end to end perspective, the main goal in this section is to focus on communications between WebSphere Commerce Server V6 and one of the WebSphere Commerce supported LDAP Servers.
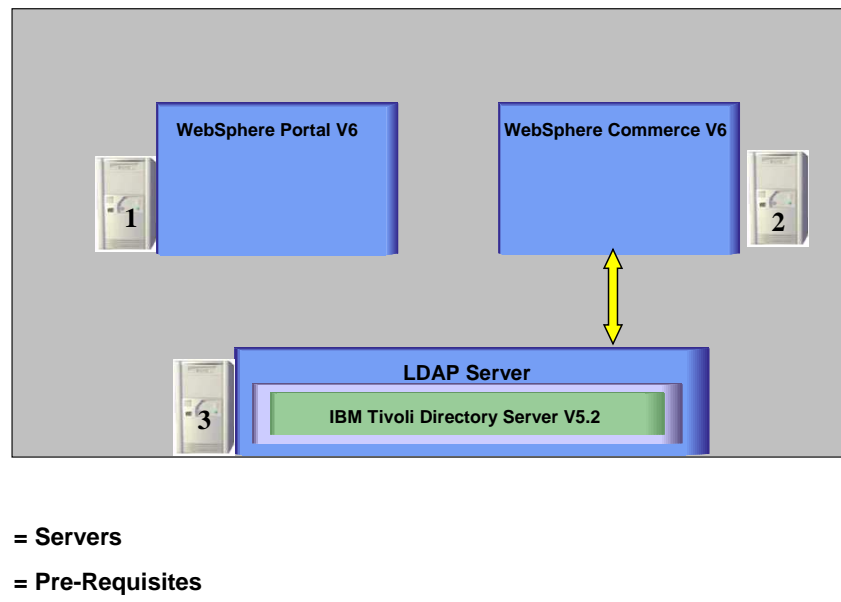
This slide depicts communication between WebSphere Commerce V6 and the LDAP server.

WebSphere Commerce and LDAP install steps

- Step 1: Install WebSphere Application Server V6 with maintenance packages

- Step 2: Install Database

- Step 3: Install WebSphere Commerce V6

- Step 4: Install Fix Pack 6.0.0.2

- Step 5: Install Feature Pack 2

- Step 6: Run enableWCPortalWizard *New*

Note: Read the Feature Pack 2 Installation Lab for detailed steps

WebSphere Commerce Portal Installation   © 2007 IBM Corporation

Establishing communication between WebSphere Commerce and the LDAP server consists of six steps: installing WebSphere Application Server V6 with the required maintenance packages, a WebSphere Commerce supported database, WebSphere Commerce Server V6, WebSphere Commerce Server Fix Pack 2, Feature Pack 2 and enabling communication between the WebSphere Commerce server and the LDAP server.

It is recommended that you backup the WebSphere Commerce instance application and database before you apply the fix pack. The database updates included in this fix pack cannot be undone.

You should examine steps 4 and 6 a little closer.

Closer look

- Step 4: Install Fix Pack 6.0.0.2
  - ▶ Download fix pack update installer
    - download.updii.6104.windows.ia32.zip
  - ▶ Copy 6.0.0-WS-WCServer-FP002.pak to the *UPDI_HOME*/maintenance
  - ▶ Run fix pack update installer
    - Update product installation
      - – Select **Product Only**
    - Update each instance
      - – Select instance name
- Step 6: Run enableWCPortalWizard
  - ▶ Enable features
  - ▶ Configure LDAP
  - ▶ Enable basic authentication

Fix Pack 2 is installed using the WebSphere Commerce Update Installer version 6.1.0.4. The fix pack file should be copied to the update installer's maintenance directory. When running the update installer, you must update the product first then each instance that has been created. In step 6, when the enableWCPortalWizard is run, it is enabling the component services feature, configuring LDAP, and enabling basic authentication.

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Section

WebSphere Commerce Development Environment

This section discusses the WebSphere Commerce Development Environment.

End to end environment - revisited
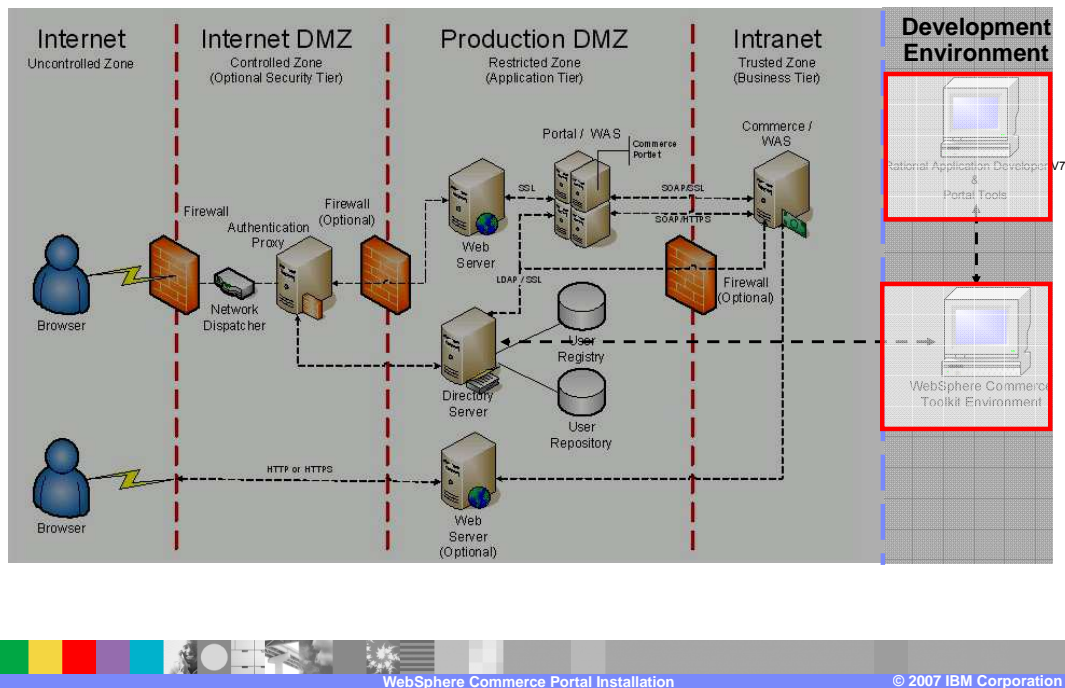
If you look at this environment from an end to end perspective, the main goal in this section is to focus on communications between Rational Application Developer V7 and the WebSphere Commerce Toolkit.
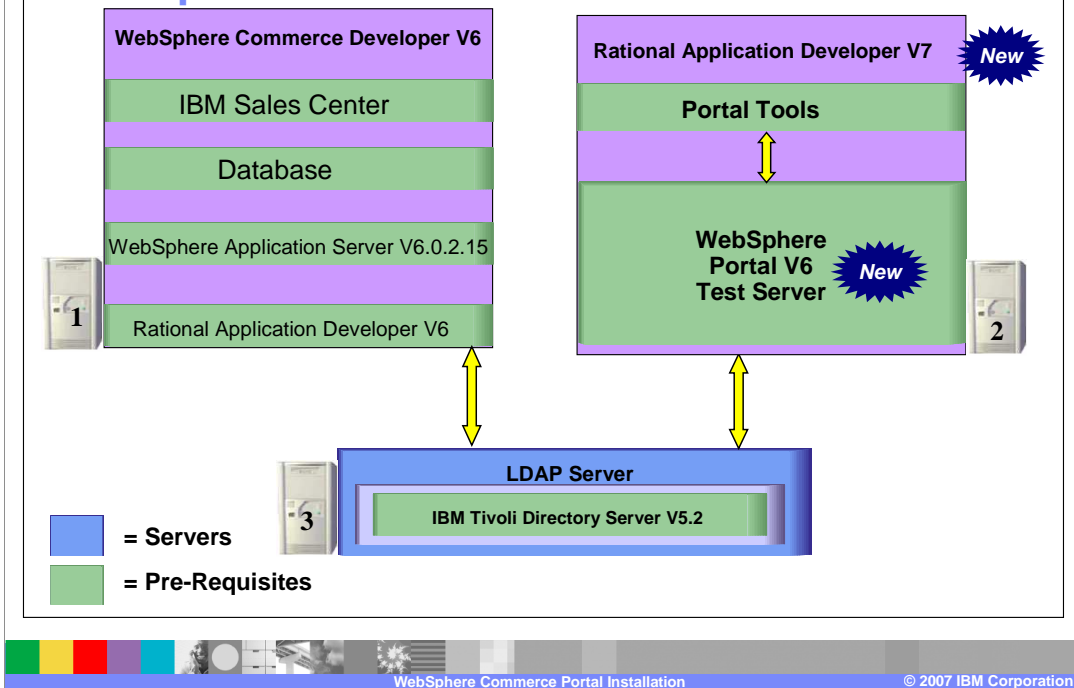
The WebSphere Commerce development environment consists of three parts: WebSphere Commerce Developer V6, Rational Application Developer V7 and an LDAP server. This slide and the subsequent slide discuss the prerequisite products that apply to WebSphere Commerce Developer V6

WebSphere Commerce Developer install steps

- Step 1: Install Rational Application Developer V6
- Step 2: Update Rational Product Updater to V6.01
- Step 3: Update Rational Application Developer V6 to V6.0.11
- Step 4: Update WebSphere Java SDK in Rational Application Developer 6.0 to 6.0.2.11
- Step 5: Update Runtime in Rational Application Developer to 6.0.2.15
- Step 6: Install DB2
- Step 7: Install WebSphere Commerce Sales Center
- Step 8: Install WebSphere Commerce Developer V6
- Step 9: Apply WebSphere Commerce Developer Fix Pack 2
- Step 10: Install WebSphere Commerce Developer Feature Pack 2
- Step 11: Enable simulated single sign-on **New**

http://publib.boulder.ibm.com/infocenter/wchelp/V6r0m0/index.jsp?topic=/com.ibm.commerce.esupport.doc/html/Installation/swg21243206.html

Note: Read the Feature Pack 2 Installation Lab for detailed steps

Establishing the WebSphere Commerce Developer environment involves many steps. For step 5, note that the installation of WebSphere® Commerce Developer 6.0 after applying WebSphere Application Server fix pack 6.0.2.11 results in a missing WebSphere Commerce test server. This is a known issue and can be resolved in one of three ways. The approach depicted here follows Solution 3 in the URL above.

Closer look

- Step 8: Install Fix Pack 6.0.0.2
  - ▸ Download fix pack update installer
    - download.updii.6104.windows.ia32.zip
  - ▸ Copy 6.0.0-WS-WCDeveloper-FP002.pak to *UPDI_HOME*/maintenance
  - ▸ Run fix pack update installer
    - Update product installation
      - 6.0.0-WS-WCDeveloper-FP002.pak

- Step 10: Run enableWCPortalWizard
  - ▸ Enable Catalog, Contract, Member and Order services
  - ▸ Enables simulated single sign-on

Fix Pack 2 is installed using the WebSphere Commerce Update Installer version 6.1.0.4. The fix pack file should be copied to the update installer's maintenance directory. Since there are no instances in the development environment, only updating the product is required. In step 10, when enableWCPortalWizard is run, it is enabling the Catalog, Contract, Member and Order services and enabling simulated single sign-on.

The configuration wizard can either enable basic authentication or simulated single sign-on. The screen capture shows the use of the latter. Both options are discussed in subsequent slides.

Development environment

WebSphere Commerce Developer V6

IBM Sales Center

Database

WebSphere Application Server V6.0.2.15

Rational Application Developer V6

1

Rational Application Developer V7 *New*

Portal Tools

WebSphere Portal V6 Test Server *New*

2

LDAP Server

IBM Tivoli Directory Server V5.2

3

= Servers

= Pre-Requisites

WebSphere Commerce Portal Installation   **© 2007 IBM Corporation**
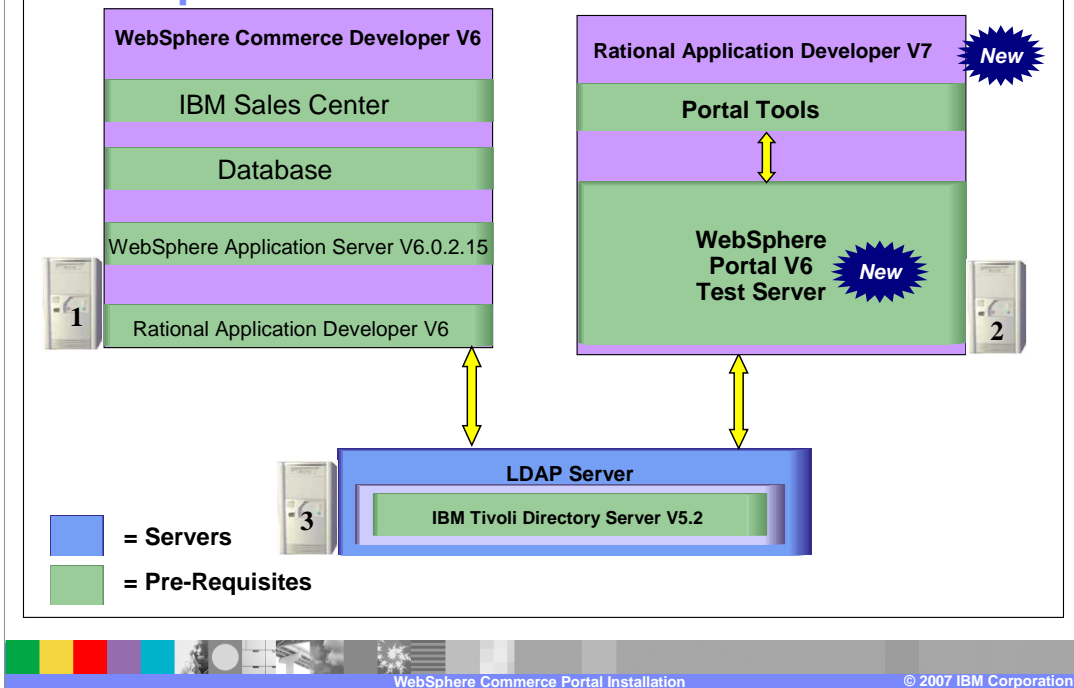
Revisiting the WebSphere Commerce development environment, this slide and the subsequent slide discuss the prerequisite products that apply to Rational Application Developer V7.

Portal development installation steps

- Step 1: Install Rational Application Developer V7

- Step 2: Install WebSphere Portal V6

- Step 3: Configure Rational Application Developer7 to use WebSphere Portal as test server

Establishing the Portal Development environment involves only a few steps: installing Rational Application Developer V7, installing WebSphere Portal V6 within the Rational Application Developer environment and configuring Rational Application Developer V7 to use the WebSphere Portal as the test server.

Section

**WebSphere Commerce Portal
Configuration and Security**

WebSphere Commerce Portal Installation   © 2007 IBM Corporation

This section discusses the configuration and the security options for the WebSphere Commerce Portal environment.

End to end environment - revisited
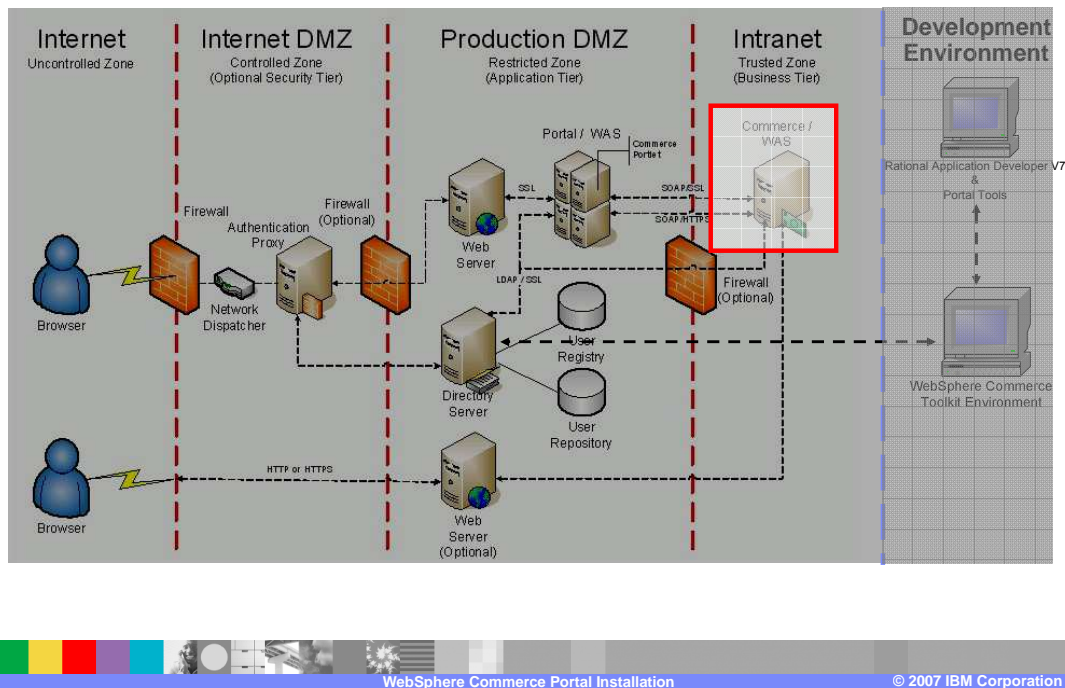
If you look at this environment from an end to end perspective, the main goal in this section is to focus on configuring the WebSphere Commerce server with the LDAP server.

Previous pain points of configuration

- Error-prone manual instructions

- Difficult to recover from failure

- Assumptions about WebSphere Portal environment

- Lacked flexibility to adapt to real environment

Some of the major customer dissatisfactions for the previous WebSphere Commerce Portal environment were installation and configuration because there were many error-prone manual instructions and difficulties in recovering from failure. The previous configuration process assumed that the WebSphere Commerce Portal system was fresh and tried to automate most of the configuration on both WebSphere Commerce and WebSphere Portal machines with many assumptions. Since the previous configuration process was atomic, it was very difficult to recover the system when something failed in the middle. In addition, the process was not flexible enough to adapt to your real-life environment.

Configuration improvements for Feature Pack 2

- Single GUI wizard does almost all the heavy lifting
  - ▸ Completes security user role mapping
  - ▸ Enables the foundation component if it has not been enabled

In Feature Pack 2, the configuration wizard has been improved. The single GUI wizard does all of the heavy lifting for you. The wizard makes the WebSphere Commerce Application Server ready to communicate with WebSphere Portal through single sign-on. The wizard also completes the security role mapping to the WebSphere Member Manager application and enables the foundation component if it has not been enabled.

Configuration prerequisites

- Follow all installation prerequisites – see installation module

- Publish WebSphere Commerce starter store with server running

- Login in as WebSphere Commerce administrator

Before running the configuration wizard, ensure that all of the previously mentioned installation prerequisites have been met. Ensure that you have a published and functional WebSphere Commerce starter store with the server started and that you have logged in as the WebSphere Commerce administrator.

Running configuration wizard

- Run from command line or graphical file manager
  - Information to gather for GUI
    - Choice of security type
    - LDAP information
    - Administrative IDs and passwords
  - "enableWCPortalWizard"
    - Runtime - *WC_installdir/components/wcportal/bin/*
    - Developer - *WCDE_installdir/components/wcportal/bin*

Before running the configuration wizard, you should know the type of security you will be enabling and have the corresponding LDAP information, administrative IDs and passwords available. Once this information has been gathered, enableWCPortalWizard can be run from the command line or from the file system.

Security types

▶ Simulated single sign-on
  ▪ Ease of setup in development environment
  ▪ Does not require LDAP repository
  ▪ Achieve single sign-on in development environment

▶ Basic authentication
  ▪ Runs with global security off
  ▪ Requires custom implementation

There are two security options within Feature Pack 2, simulated single sign-on and basic authentication. Both are discussed in more detail in subsequent slides.

It is important to note that authentication will be performed by the WebSphere Portal server and the credentials will be passed onto WebSphere Commerce to map the portal user to an appropriate user in the WebSphere Commerce member subsystem to achieve a single sign-on experience. On subsequent requests verification of the WebSphere Portal credentials may be ignored when a WebSphere Commerce specific authentication, an Identity token, is established. Certain static content authorization will be performed by the WebSphere Portal server. However, all WebSphere Commerce specific authorization, such as fine grain (content level) access control will still be performed by the WebSphere Commerce server and not on the WebSphere Portal server side.

Simulated single sign-on
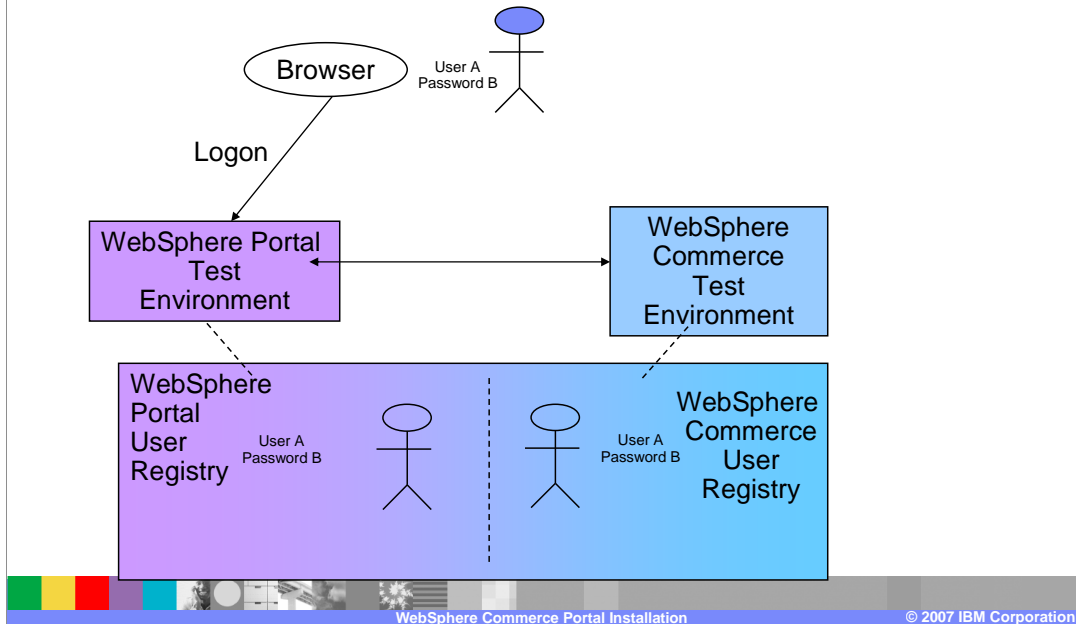
Simulated single sign-on is basically for ease of setup in the development environment in Rational Application Developer where the portlet developer can be up and running without enabling security and without using LDAP. Since security in a development environment is not a major concern, you can be up and running as fast as possible. This option allows the use of a pre-determined WebSphere Commerce user ID. The system automatically uses that credential to perform authentication through a WebSphere Commerce Web service, without having the WebSphere Portal user aware of this operation. Doing this can achieve the single sign-on experience inside of the development environment but without the hassle of enabling global security and configuring WebSphere Member Manager with LDAP.

Basic authentication

Browser

User A
Password B

Logon

Portal Web Server

Logon

Portal Server

Logon Module

SOAP/HTTP (Port 80)

SOAP/HTTPS (Port 8000)

Commerce Web Server

SOAP/HTTP (Port 80)

SOAP/HTTPS (Port 8000)

Commerce Server

LDAP

WebSphere Commerce Portal Installation

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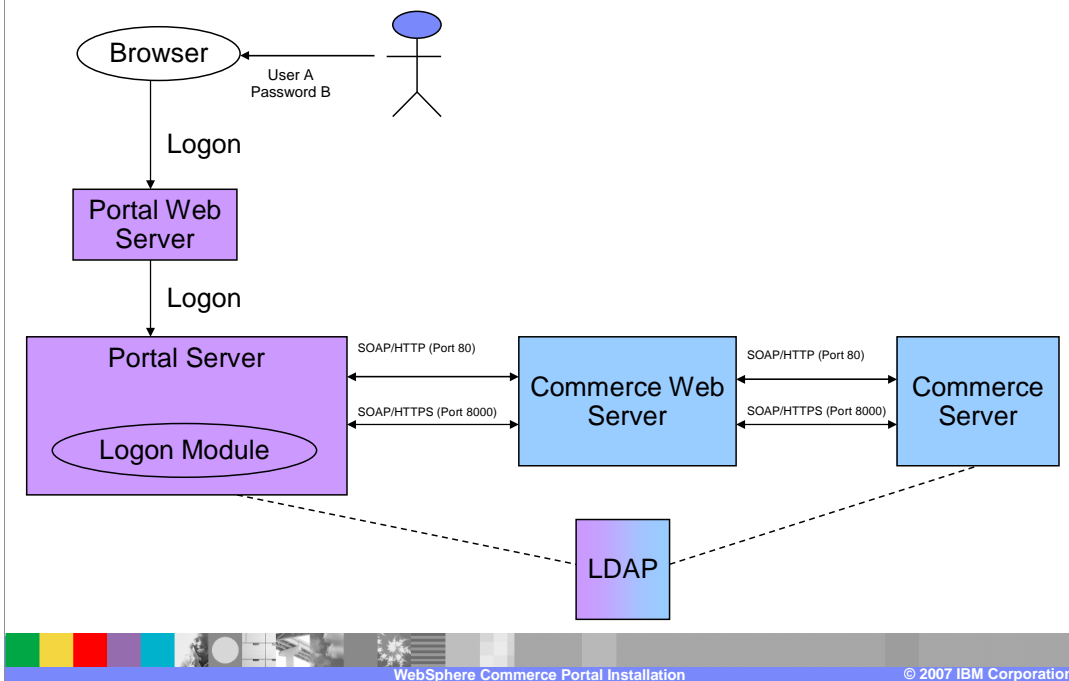
Basic authentication is the alternative solution for not enabling global security on the WebSphere Commerce server. There is a requirement for you to implement the logic to capture and insert the WebSphere Portal user name and password into the WebSphere Portal credential vault. This means the WebSphere Portal logon module, which is the only place where passwords can be captured, will need to be customized. Once the user secret is in the credential vault, the WebSphere Commerce portlet can go in and retrieve the user's password and then perform authentication against the Identity Service just like in simulated single sign-on. In terms of global security on the WebSphere Portal side, global security is required to be enabled in order to work with LDAP through the WebSphere Member Manager.

Section

Problem determination

This section discusses problem determination.

Problem determination

- Check configwizard.log for any errors
  - ▶ Located in *<Portal_Home>/log/*

- Check wcportalconfig_*timestamp*.log
  - ▶ Runtime - *WC_install_dir/instances/instanceName/logs*
  - ▶ Developer - *WCDE_installdir/logs/*

- Stop WebSphere Commerce test server before running enableWCPortalWizard.bat

- Avoid spaces in fix pack directory

If there are any errors when running the configwizard.bat command to enable security on the WebSphere Portal server, see the log file noted in the slide. If there are any errors when running the enableWCPortalWizard command to enable security on the WebSphere Commerce server, see the log file noted in the slide. When enabling security in the developer environment, ensure that the test server is stopped before running the wizard When installing fix pack 2, avoid saving the file to directories containing spaces.

Summary

- End to end environment

- Example topologies

- WebSphere Portal and LDAP installation

- WebSphere Commerce and LDAP installation

- WebSphere Commerce Development Environment

- WebSphere Commerce Portal configuration and security

- Problem determination

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In summary, this presentation discussed the end to end environment, example topologies, WebSphere Portal and LDAP installation, WebSphere Commerce and LDAP installation, the WebSphere Commerce Development Environment, WebSphere Commerce Portal configuration and security and problem determination.

References

- WebSphere Commerce V6:
  - http://publib.boulder.ibm.com/infocenter/wchelp/v6r0m0/index.jsp

- WebSphere Portal V6:
  - http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp

- WebSphere Application Server V6:
  - http://publib.boulder.ibm.com/infocenter/wasinfo/V6r0/index.jsp

- Tivoli Directory Server V5.2:
  - http://publib.boulder.ibm.com/tividd/td/IBMDirectoryServer5.2.html

For more information regarding WebSphere Commerce V6, WebSphere Portal V6, WebSphere Application Server V6 or Tivoli Directory Server V5.2, visit the sites indicated in the presentation.

References

- Rational Application Developer V6:
  - http://publib.boulder.ibm.com/infocenter/radhelp/v6r0m1/index.jsp
- Rational Application Developer V7:
  - http://publib.boulder.ibm.com/infocenter/radhelp/v7r0m0/index.jsp
- DB2 V8.2:
  - http://publib.boulder.ibm.com/infocenter/db2luw/v8//index.jsp

For more information regarding Rational Application Developer V6, Rational Application Developer V7 or DB2 V8.2, visit the sites indicated in the presentation.

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