WebSphere Portal Server for iSeries: Install and Configuration of Collaboration Center

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Table of Contents

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

Why is Collaboration Important to You?

As today's workforce becomes more dispersed and virtual teams become the norm, businesses are looking for ways to quickly connect their workers for collaborative efforts. Most customers initially purchase Lotus® Domino® for the built-in enterprise e-mail, calendaring and scheduling applications, instant messaging, and web conferencing. The majority of customers are exploiting the "more than mail" capabilities that support core business processes. WebSphere® Portal provides an extensible framework for interacting with enterprise application, content, people, and processes.

Self-service features allow end users to:
?   Personalize and organize their own view of the portal
?   Manage their own profiles
?   Publish and share documents with their own view of the portal
?   Manage their own profiles
?   Publish and share documents with their colleagues.

More details can be found online on the Lotus Web site (www.lotus.com/brand).

The Collaboration consists of these components:
• Lotus Instant Messaging and Web Conferencing Server
• Lotus Team Workplace Server
• Lotus Mail and LDAP Server
• WebSphere Application Server
• WebSphere Portal
• WebSphere Application Server Administration tool

This paper give the reader more details about these components and helps them understand the product's power to transform any work environment.

Introductory Information

In this paper, Release 5.0.12 of Lotus Domino and 3.1 of Lotus Instant Messaging and Web Conferencing (Lotus Sametime®) along with 3.0.1 of Lotus Team Workplace (QuickPlace®) is being used on an iSeries server.

In addition, the developer will configure Lotus Collaborative Components to use the Domino Directory as the LDAP directory. The developer will then configure the WebSphere Portal Instance to use Domino as the LDAP directory and Lotus Instant Messaging and Team Workplace.

For single sign-on, LTPA tokens provide a means to share authentication information among Lotus, WebSphere, and Tivoli® application Web Servers. If the LTPA keys are shared by all applications, users authenticated by an application server will be automatically authenticated on the other application servers.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

Installing Collaboration Center components on Portal 5.0.2

This paper describes how to install and configure Lotus Collaboration Center components onto WebSphere Portal running on an iSeries server. For the latest information about Collaboration Center installation, refer to the Collaboration Center release notes.

Prerequisites

Before installing Collaboration Center components for the first time, make sure that the existing portal environment is correctly set up with an LDAP service using WebSphere Member Manager in the portal, enabled for single sign-on (SSO), and that Lotus Companion Products are enabled to work with the portal. Refer to *WebSphere Portal Server Express V5.0.2 for iSeries: Collaboration Configuration white paper* at **ibm.com**/servers/enable/site/education/abstracts/1eca_abs.html or the *Lotus Collaboration and WebSphere Portal Integration on the IBM eServer iSeries Server Redbook* at: **ibm.com**/redbooks —search for sg246337

Configuration properties

Before the developer runs the Collaboration Center installation program, make sure that the WebSphere Portal configuration properties file, `wpconfig.properties`, is up-to-date and has correct values specified for the following properties:

- ? PortalAdminIdShort
- ? PortalAdminPwd
- ? WpsHostName
- ? WpsHostPort

The `wpconfig.properties` can be found in the following directory:
`/qibm/userdata/webas5/base/<instance_name>/portalserver5/config`

Components

The installation program adds the following Collaboration Center components to the portal environment:

1. Five portlets that integrate the activities of people working together in the Collaboration Center
   - ? My Lotus Team Workplaces (QuickPlace) portlet, stored in LotusMyTeamWorkplaces.war
   - ? Lotus Web Conferencing (Sametime) portlet, stored in LotusWebConferencing.war
   - ? People Finder portlet, stored in lwppeoplefinder.war
   - ? Sametime Contact List portlet, stored in SametimeContactList.war
   - ? Sametime Who Is Here portlet, stored in SametimeWhoIsHere.war
2. The deployment file for the Collaboration Center portlets: DeployCollabCenterPortlets.xml
3. The deployment file for the sample Collaboration Center page: DeployCollabCenterPage.xml

Installation

The following instructions need to be performed to install Collaboration Center:
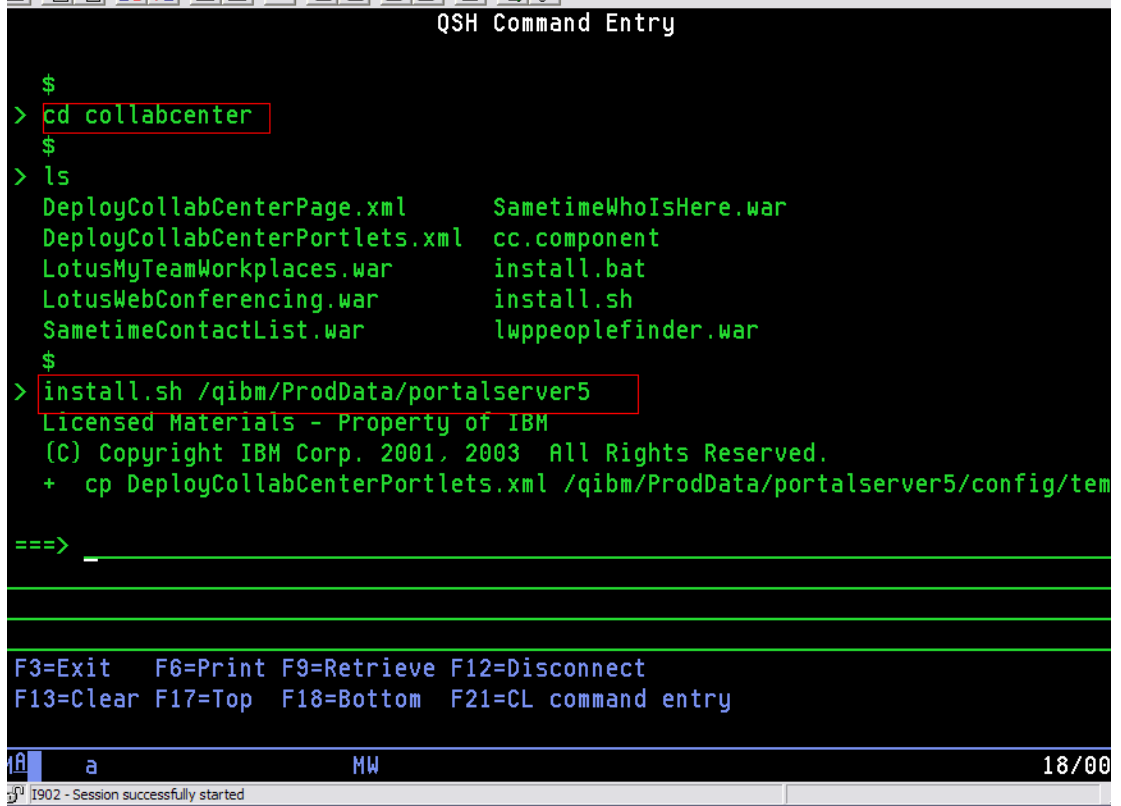
WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

1. Locate the Collaboration Center CD.
2. Do one of the following to access the files on the CD:

    To access the files locally on your iSeries server, insert the Collaboration Center CD.

    To copy the files from a Microsoft® Windows® workstation to your iSeries server, perform the following steps:

    a. Insert the Collaboration Center CD in the disc drive of the Windows workstation.
    b. Map a network drive to the iSeries integrated file system.
    c. Copy the contents of the `collabcenter/` directory from the CD to a /temp directory on the iSeries server.

3. Sign on to an OS/400 workstation.
4. From the command line prompt, start the Qshell Interpreter by entering the following command: `STRQSH`
5. Do one of the following to change to the appropriate directory:

    To access files locally, change to the collabcenter directory of the CD by entering the following: `cd /qopt/wpxp-4-4/collabcenter`

    To access the files on the directory that were created for the copy from the Windows workstation, change to the temp directory. For example: `cd /home/<user_id>/temp`

6. Enter the following command to start installation:

    `sh install.sh /qibm/ProdData/portalserver5`

```
                        QSH Command Entry


    $
> cd collabcenter
    $
> ls
    DeployCollabCenterPage.xml        SametimeWhoIsHere.war
    DeployCollabCenterPortlets.xml    cc.component
    LotusMyTeamWorkplaces.war         install.bat
    LotusWebConferencing.war          install.sh
    SametimeContactList.war           lwppeoplefinder.war
    $
> install.sh /qibm/ProdData/portalserver5
    Licensed Materials - Property of IBM
    (C) Copyright IBM Corp. 2001, 2003  All Rights Reserved.
    +  cp DeployCollabCenterPortlets.xml /qibm/ProdData/portalserver5/config/tem

===>  _




 F3=Exit   F6=Print F9=Retrieve F12=Disconnect
 F13=Clear F17=Top  F18=Bottom  F21=CL command entry

MA    a               MW                                         18/00
```
I902 - Session successfully started

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

```
                          QSH Command Entry

  +  cp LotusMyTeamWorkplaces.war /qibm/ProdData/portalserver5/installableApps
  +  chown QSYS /qibm/ProdData/portalserver5/installableApps/LotusMyTeamWorkpl
  ces.war
  +  chmod 777 /qibm/ProdData/portalserver5/installableApps/LotusMyTeamWorkpla
  es.war
  +  attr /qibm/ProdData/portalserver5/installableApps/LotusMyTeamWorkplaces.w
  r PC_READ_ONLY=0
  +  cp cc.component /qibm/ProdData/portalserver5/version/
  +  chown QSYS /qibm/ProdData/portalserver5/version/cc.component
  +  chmod 777 /qibm/ProdData/portalserver5/version/cc.component
  +  attr /qibm/ProdData/portalserver5/version/cc.component PC_READ_ONLY=0
  +  set +ex
  Collaboration Center install success.
  $


===> _



F3=Exit    F6=Print F9=Retrieve F12=Disconnect
F13=Clear F17=Top   F18=Bottom   F21=CL command entry
```

7. After the installation, perform the following steps to add the Collaboration Center files to your portal instance:
    a. Change to the directory `/qibm/ProdData/portalserver5/config`
    b. Enter the following command to copy the Collaboration Center files from the `/ProdData/portalserver5` directory to your portal instance:
       `sh addwpsinst.sh -instance <was_instance_name>`

```
                          QSH Command Entry

  +  cp cc.component /qibm/ProdData/portalserver5/version/
  +  chown QSYS /qibm/ProdData/portalserver5/version/cc.component
  +  chmod 777 /qibm/ProdData/portalserver5/version/cc.component
  +  attr /qibm/ProdData/portalserver5/version/cc.component PC_READ_ONLY=0
  +  set +ex
  Collaboration Center install success.
  $
> cd /qibm/proddata/portalserver5/config
  $
> addwpsinst.sh -instance wps1team
  Licensed Materials - Property of IBM
  5724-E76, 5724-E77
  (C) Copyright IBM Corp. 2001, 2003  All Rights Reserved.


===> _
```

Notes: The `addwpsinst.sh` command performs the following actions:
- ? Adds WebSphere Portal to a WebSphere Application Server instance — Adding WebSphere Portal to a WebSphere

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

Application Server instance means that select files are copied from the Product directory (`/qibm/ProdData/portalserver5`) to the User directory (`/qibm/UserData/webas5/base/<was_instance_name>/portalserver5`).

? Upgrades your portal instance with the Collaboration Center file — If a portal instance already exists when you run the `addwpsinst.sh` command, look for a message that states that the Collaboration Center files were copied to your portal successfully, and ignore a `BUILD FAILED` message, if one is displayed. The `BUILD FAILED` message is shown because the `addwpsinst.sh` command recognizes the existing portal instance and does not attempt to add another one.

If you do not see the message stating that the Collaboration Center files were copied successfully, perform the preceding steps again.

Post-install operations

After the developer has installed the Collaboration Center components, he/she must perform an additional task of specifying style sheets.

Specifying style sheets for the People Finder portlet

The upgrade installer for WebSphere Portal 5.0.2 contains additional Cascading Style Sheets that must be accessed by the theme for proper operation of the People Finder portlet and Person tag. To access the new CSS files, perform the following manual steps for each theme that supports an HTML markup:

1. Determine the location where CSS files are linked into the <HEAD> section of the page. For most themes, this will be a version of Head.jsp. The themes provided with WebSphere Portal have a version of this file located at:
   `/QIBM/UserData/WebAS5/Base/<instance>/installedApps/<HostName>/wps.ear/wps.war/themes/html/Head.jsp`

   where *instance* is the name of the WebSphere Application Server instance.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

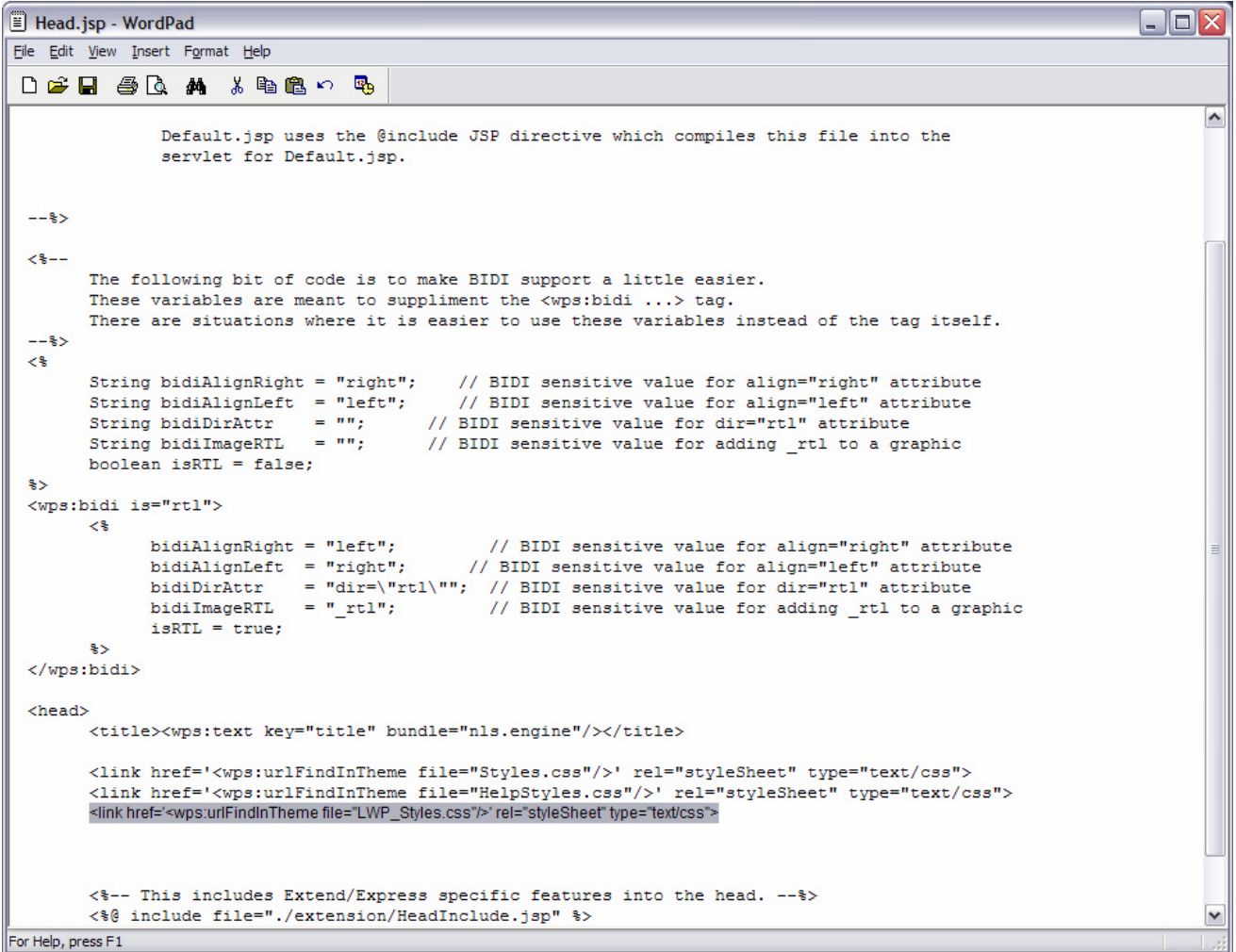2. Edit this file and search for lines similar to the following lines:
    ```
    <link href='<wps:urlFindInTheme file="Styles.css"/>'
    rel="styleSheet" type="text/css">

    <link href='<wps:urlFindInTheme file="HelpStyles.css"/>'
    rel="styleSheet" type="text/css">
    ```
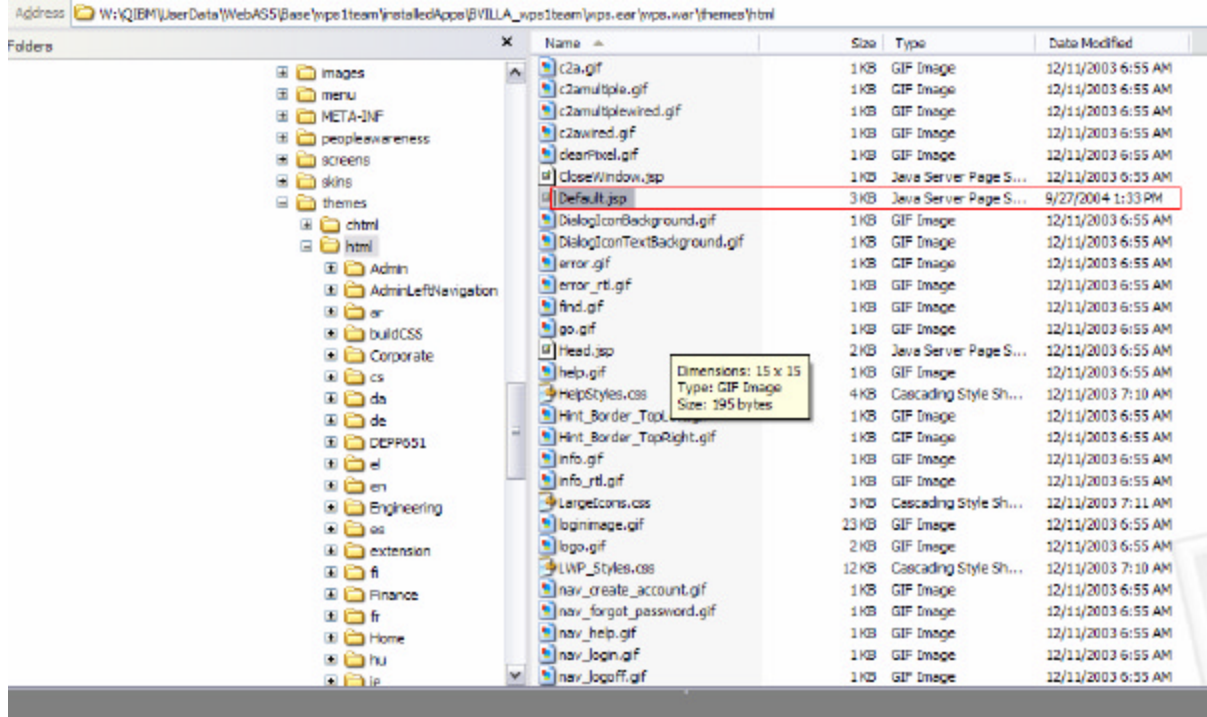
3. After the two lines in step 2, add the following line and save the changes:
    ```
    <link href='<wps:urlFindInTheme file="LWP_Styles.css"/>'
    rel="styleSheet" type="text/css">
    ```


4. Touch the timestamp on the theme's Default.jsp file so it will be re-compiled by the JSP compiler. To do this, edit the file, add a blank line, and save it.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

5. Restart the portal server.

Deploying Collaboration Center portlets

The following instructions include a configuration task that is run at a command line. The task deploys Collaboration Center portlets, either standalone or as part of a deployed sample portal page. Running the task also configures WebSphere Portal to recognize the presence of the Collaboration Center portlets so that they can communicate with WebSphere Member Manager.

Note To take advantage of all functionality available in the Collaboration Center portlets, the portal must have Lotus Companion Products enabled, and Lotus Collaborative Components configured.

Run the configuration task to configure WebSphere Portal to use Collaboration Center portlets

To perform the configuration task, do the following:
1. Start a 5250 session on the server where WebSphere Portal is installed.
2. Start the Qshell Interpreter by typing the following on an OS/400 command line:
   STRQSH
3. Change to the directory
   /qibm/userdata/webas5/base/<*instance*>/portalserver5/config, where *instance* is the name of the WebSphere Application Server instance.
4. Type the following at the command line to run the appropriate configuration to deploy either the Collaboration Center portlets, or the portlets and the sample page:
   WPSConfig.sh cc-deploy-portlets
   WPSConfig.sh cc-deploy-page

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

5. Check the output for any error messages. If the developer encounters an error, check the appropriate logs file for more information.

```
                        QSH Command Entry

  [xmlaccess] <!-- 29/31 [portletinstance] -->
  [xmlaccess] <!-- 30/31 [component _7_609EVJDBI1S5CD0I_K4] -->
  [xmlaccess] <!-- 31/31 [portletinstance] -->
  [xmlaccess] <request type="update" xmlns:xsi="http://www.w3.org/2001/XMLSche
  a-instance" xsi:noNamespaceSchemaLocation="PortalConfig_1.2.xsd">
  [xmlaccess]    <status element="all" result="ok"/>
  [xmlaccess] </request>
     [logmsg] 2004.09.27 14:09:08.993 action-cc-deploy-page
     [logmsg]   EJPC7005I The Collaboration Center page deployed successfully.


  BUILD SUCCESSFUL
  Total time: 18 minutes 20 seconds
  $

===> _



 F3=Exit   F6=Print F9=Retrieve F12=Disconnect
 F13=Clear F17=Top  F18=Bottom  F21=CL command entry


 MA    a                                                            18/00
```

6. The Collaboration Center Portlets should already be deployed. If the developer chooses the option to deploy the page, he/she should have a Collaboration Center page with all of the portlets deployed onto it.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center
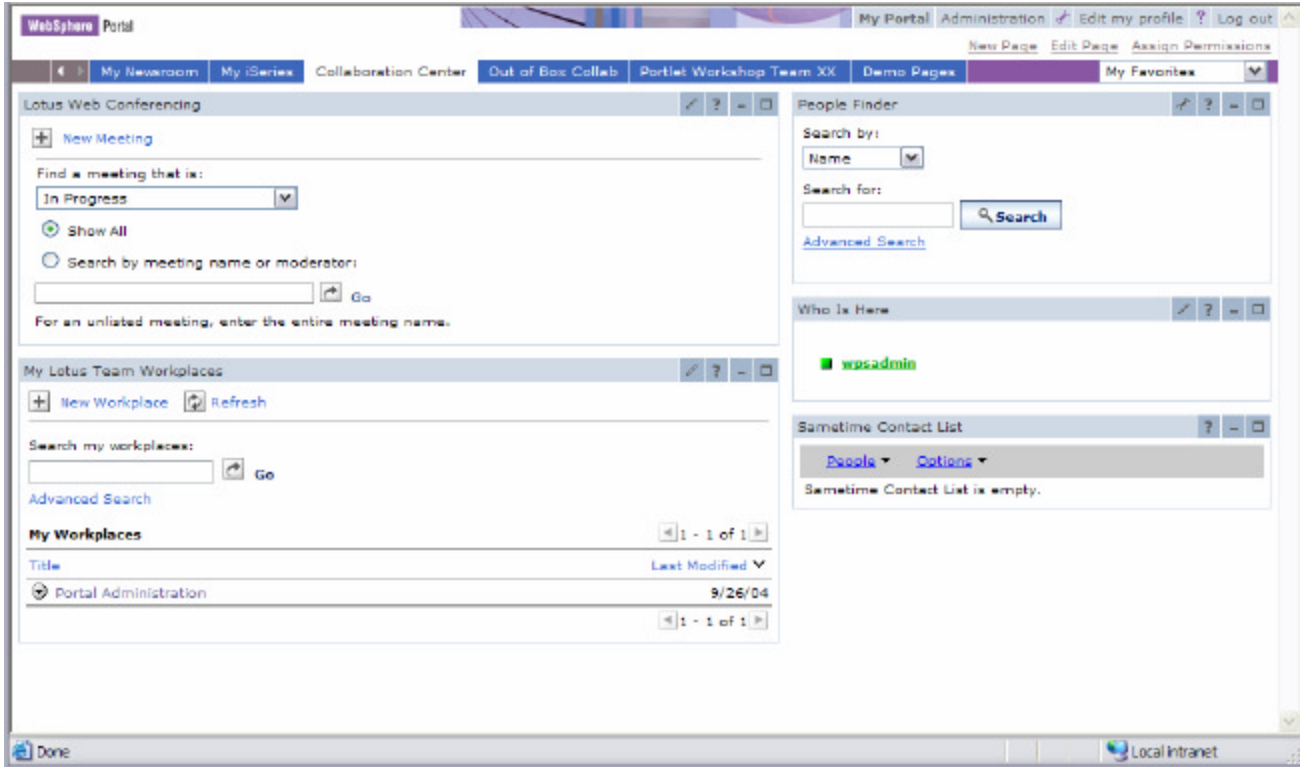
Install Collaborative Updates with WebSphere Portal Version 5.0.2.2

Follow these instructions to install the collaborative updates supplied with WebSphere Portal 5.0.2.2:

1. Complete the installation and configuration of WebSphere Portal 5.0.2.2.
2. Stop WebSphere Portal 5.0.2.2.
3. Copy `/collabcenter/cs.jar` from CD12 to `<portal>/shared/app/cs.jar`. Overwrite `existing cs.jar` if present.
4. Start WebSphere Portal 5.0.2.2.
5. Ensure that WebSphere Portal 5.0.2.2 is running and verify that it is using a browser that the developer able to login to using the administrative credentials.
6. Install the new SametimeWhoIsHere portlet application if the application will be used with WebSphere Portal 5.0.2.2. If a previous version of Collaboration Center is installed, the SametimeWhoIsHere would have been already deployed on the server. In this case, the developer needs to update it instead of installing the newer version. To do this, go to **Administration** -> **Portlets** -> **Manage Applications** screen. Select the `SametimeWhoIsHere.war` from the list of Web modules and click **Update** to update the portlet application.

    If a previous version of Collaboration Center is not installed, the developer will need to install the version supplied with WebSphere Portal 5.0.2.2. To do this, first copy the `/collabcenter/SametimeWhoIsHere.war` from CD12 to the `<portal>/installableApps` directory. Then, select **Administration** -> **Portlets** -> **Install**.
7. Follow the instructions provided in the `/depp/readme.html` on CD12 to install IBM Lotus Notes®/Domino and Extended Product Portlets Version 6.5.1.1. Any previously installed collaborative portlets will be updated to the newer version. For additional information, see the *Deploying IBM Lotus Notes/Domino and Extended Products Portlets 6.5.1 on an iSeries server* white paper at: **ibm.com**/servers/enable/site/education/abstracts/2b4e_abs.html

Note: It is recommend to use the `-portlets` option when installing the "IBM Lotus Notes/Domino and Extended Product Portlets" package. Installing the "IBM Lotus Notes/Domino and Extended Product Portlets" package without the `-portlets` option will also deploy sample pages to host instances of portlets supplied by the package. **However, the script to deploy the sample pages changes all localized titles of "My Portal" page to "My Workplace" and also changes its default theme. This will affect the look and feel of all your existing pages under the "My Portal" page.** If the developer needs to deploy the sample pages and wants to preserve existing titles and theme settings, use xmlaccess to first export the "My Portal" page which can then be imported using `xmlaccess` after completing the install of "IBM Lotus Notes/Domino and Extended Product Portlets". See WebSphere Portal 5.0.2 Information Center (**ibm.com**/websphere/portal/library) for information on how to use `xmlaccess` to export and import specific pages. For example, use `uniquename="wps.My Portal"` as the attribute for exporting the existing "My Portal" page.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

Configure the Portlets

If collaborative portlets have not been used up to this point, the developer will need to configure them before using them. Follow the instructions provided in the WebSphere Portal 5.0.2 Information Center (**ibm.com**/websphere/portal/library) to configure these portlets by clicking **Installing** -> **Lotus Collaborative Components** -> **Collaboration Center** -> **Configuration Overview** from the "Contents" menu.

To configure the Web conferencing and Team Workplaces portlets:
1. Log into the Portal instance as administrator.
2. Click on the Administration link at the top of the page
3. Click on Portlets -> Manage Portlets. The developer must configure the Lotus Web Conferencing and Lotus Team Workplaces Portlets to point to the Sametime and QuickPlace servers.
4. Click on the **Administration** link at the top of the page.
5. Click **Portlets** and **Manage Portlets.**
6. Select the **Search for portlets**, type Lotus and click **Go.**
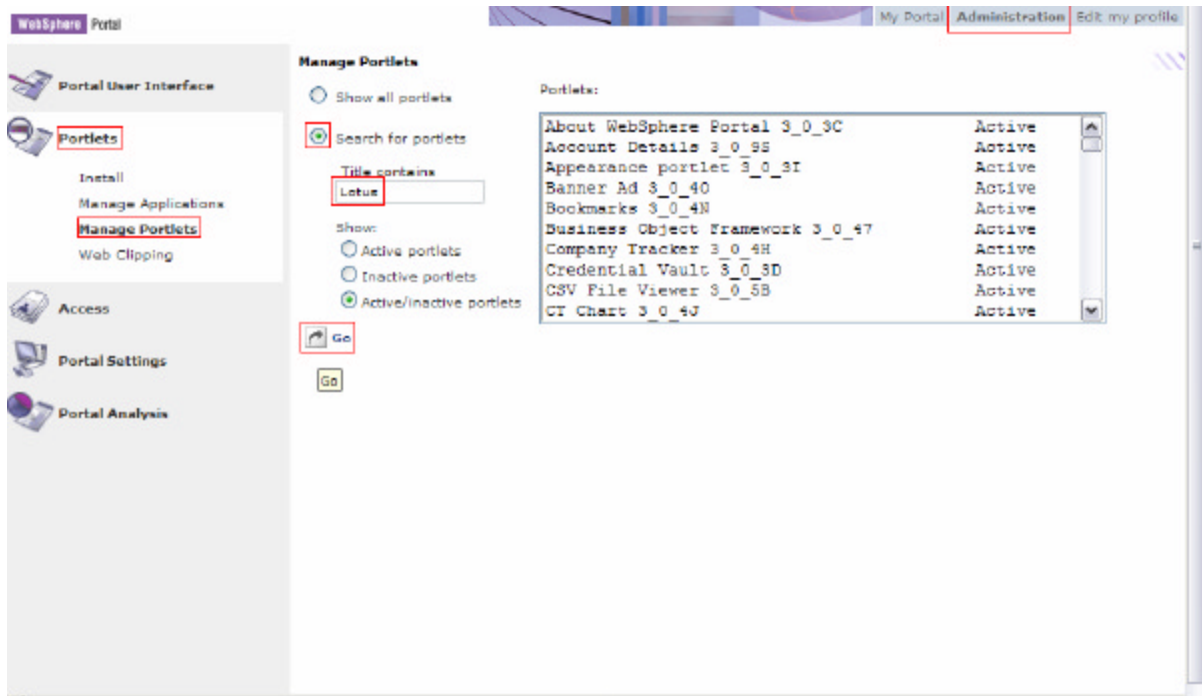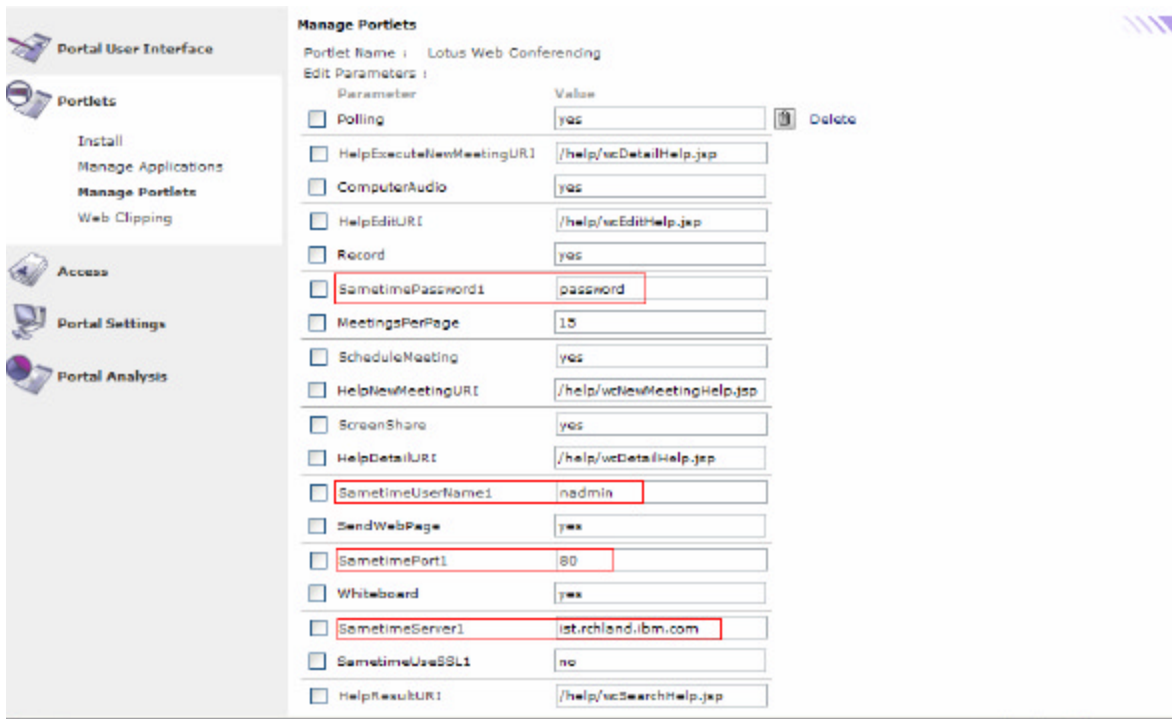

7. Select the **Lotus Web Conferencing Portlet** and click on **Modify Parameters.**

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center
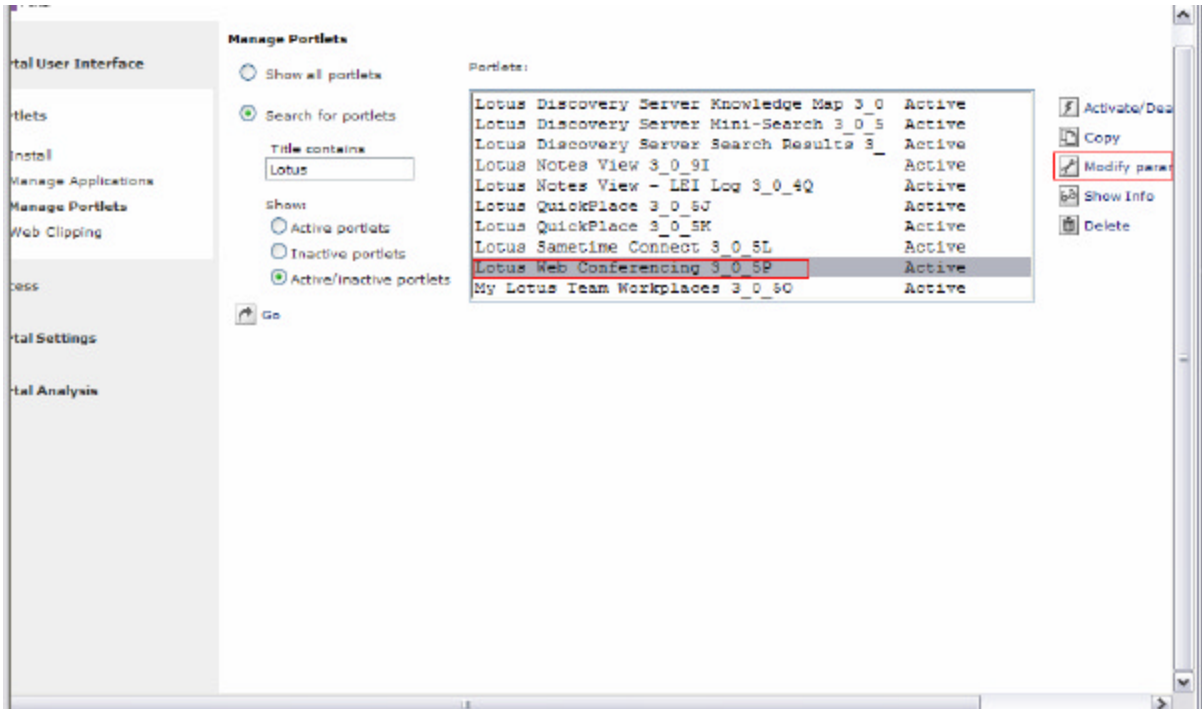
8. Change the following fields:
   a. **SametimePassword1**=wpsadmin
   b. **SametimeUserName1** = wpsadmin
   c. **SametimeServer1**=Domst.itsoroch.ibm.com

9. Click the **save** button at the bottom of the page then click **cancel.**
10. Next, edit the parameters for **My Team Workplaces** portlet**.** Edit the field:
   **QuickPlaceHostname**=domqp.itsoroch.ibm.com

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center
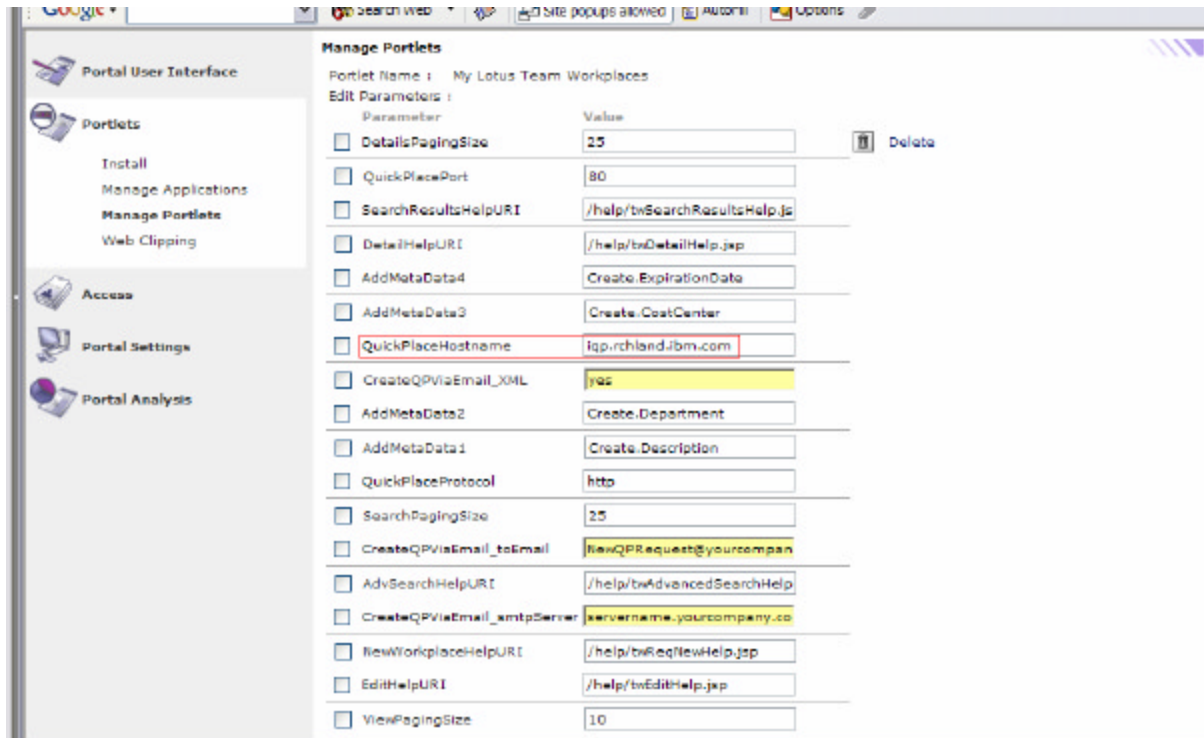
11. Click the **save** button at the bottom of the page then click **cancel.**
12. Return to the Collaboration Center page by clicking on the **My Portal** link at the top of the page.
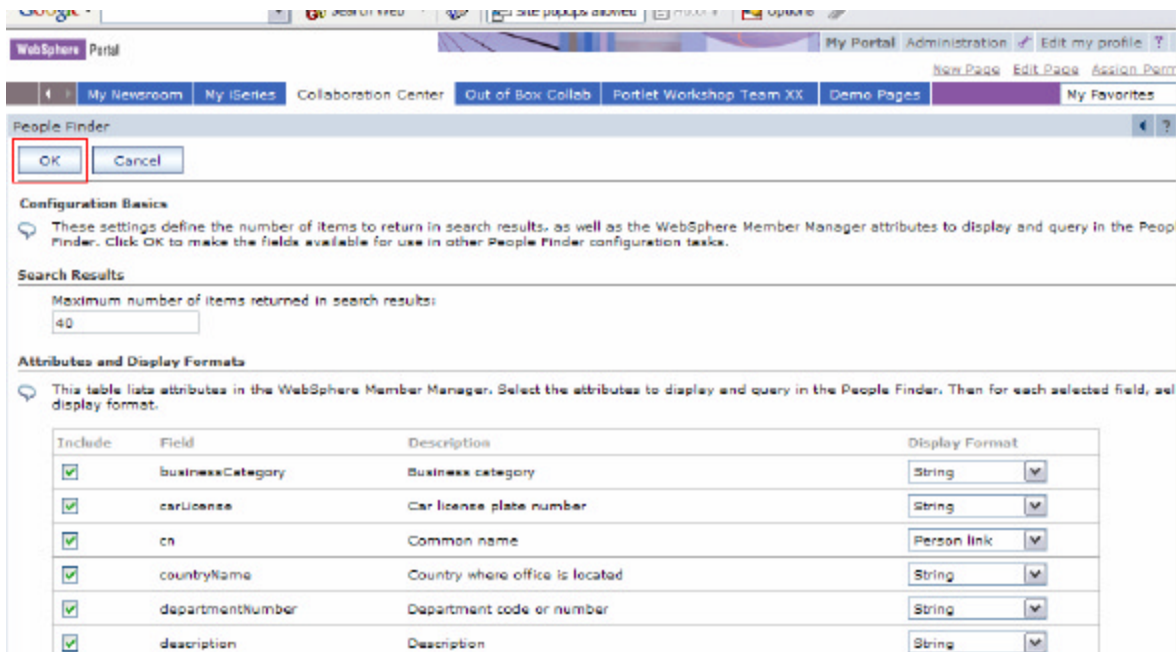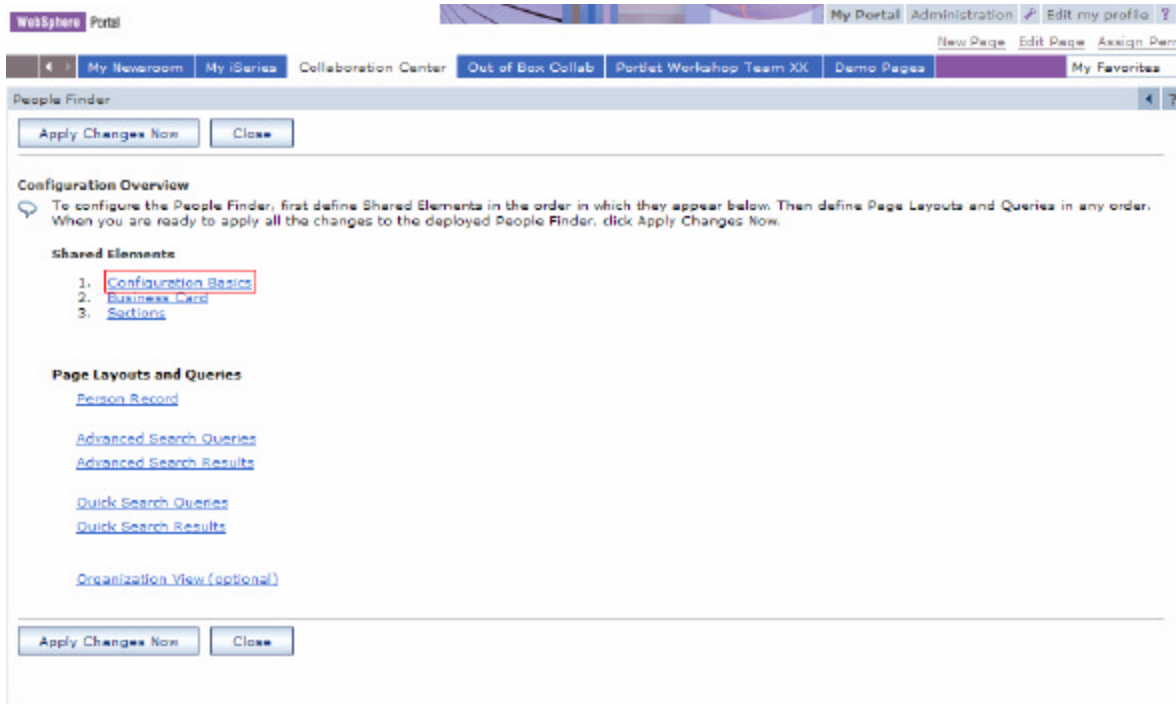
To configure the People Finder Portlet

1. Click the **Configure (wrench)** icon at the top of the page to select the fields to show in search results and person records.
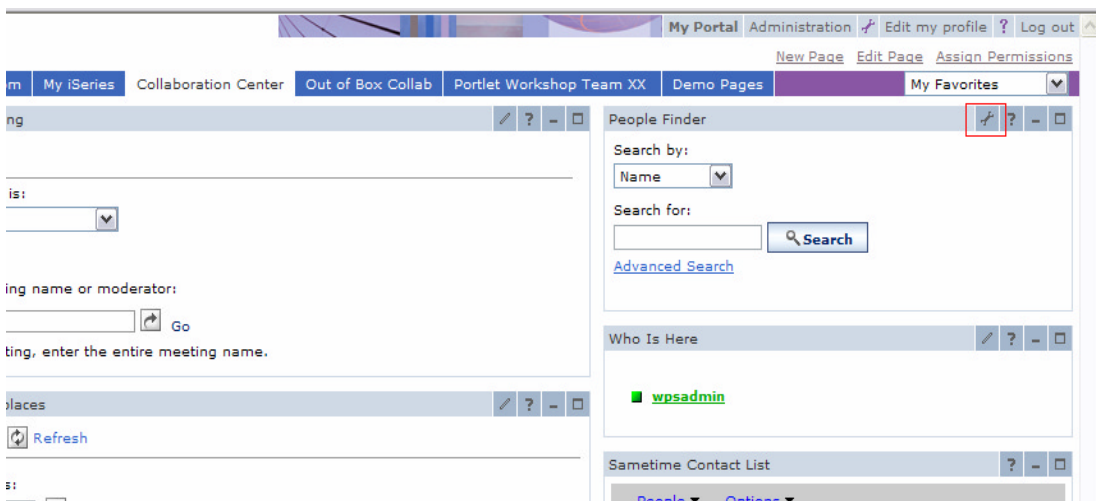
WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

2. Click on the **Configuration Basics** link. Accept all the defaults and click **OK**.
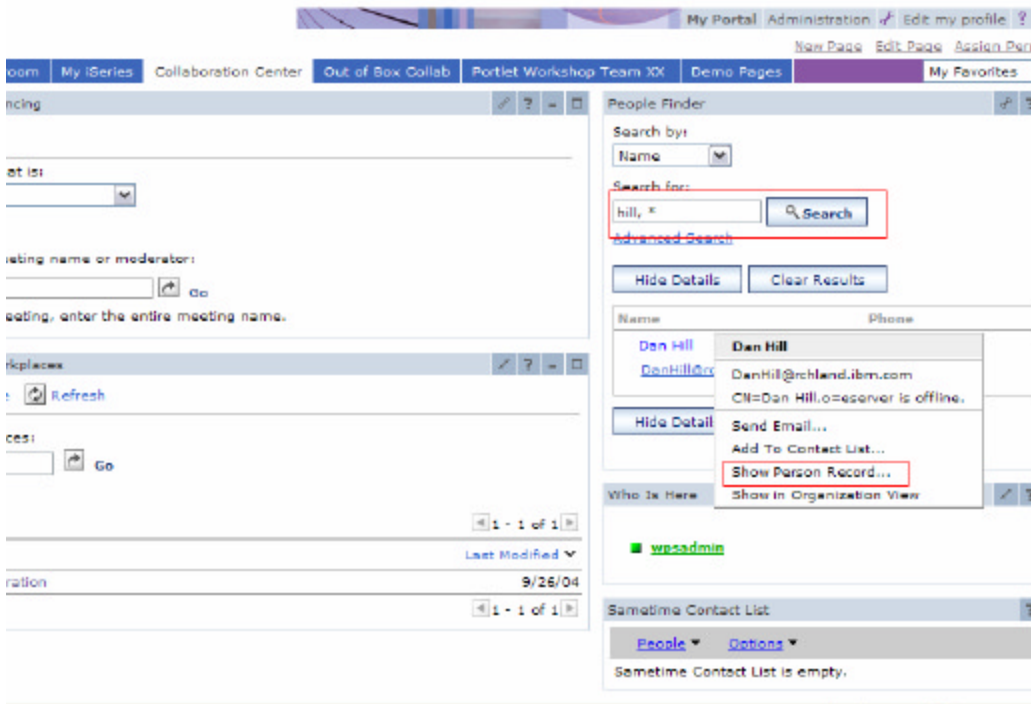

3. Do the same for **Business Card** and **Sections**.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

4. Click on the **Apply Changes Now** button to return to the Collaboration Center.

You can now search for people listed in the LDAP directory.

5. Click on the **Name** of the person and then select **Show Person Record** to display the **Person Record**.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

6. Click on **Close Record** to return to Collaboration Center.

If the developer wants help on configuration of this portlet, go to the Information Center Web site or click the **?** icon of the portlet.

Summary

This paper walked a developer through deploying the Lotus Collaboration Center with WebSphere Portal 5.0.2 and 5.0.2.2. It also walked them through configuring the portlets and showed how to use the People finder portlet. You should now be able to deploy and configure the Collaboration Center and the Collaborative components on a WebSphere Portal server.

WebSphere Portal Server for iSeries:
Install and Configuration of
Collaboration Center

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