

iSeries Access for Windows and iSeries Navigator Lab

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IBM eServer Solutions Enablement

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Lab Worksheet

Please complete the worksheet below with the names and addresses you will use to complete this lab exercise.

Environment	Variable	Value
iSeries	User ID	
iSeries	Password	
iSeries	System Name	

Note: If you do not already know the name of the IBM® eServer™ iSeries™ server, please obtain it from your network administrator. As an alternative to using the server name, you can also use the IP address.

Introduction

iSeries Access for Windows offers TCP/IP connectivity from Microsoft® Windows® 98, XP, NT, 2000, and 2003 PC clients. This lab will introduce you to some of the basic functions and features of the client.

Part 1. Setting Up and Getting Started

Before iSeries Access for Windows can be used, some iSeries licensed program products (LPPs) need to be installed on the iSeries server. Ensure that the following LPPs are installed on the iSeries server:

- 5722TC1 - TCP/IP Connectivity Utilities for iSeries
- 5722SS1 opt. 12 - Host Servers

The following LPPs are optional, and do not need to be applied on the iSeries server for all applications:

- 5722XE1 - iSeries Access for Windows
 - Enables iSeries Access service pack PTF application on the iSeries server
 - Allows iSeries Access for Windows to be installed from the iSeries server
- 5722XW1 - iSeries Access Windows Family
 - Required only for using iSeries Access for Windows licensed functions, including the PC5250 display and printer emulation and Data Transfer components.

NOTE: These lab exercises have been tested with OS/400® V5R2. The exercises may work similarly on previous or subsequent releases of OS/400.

iSeries Access for Windows and NetServer

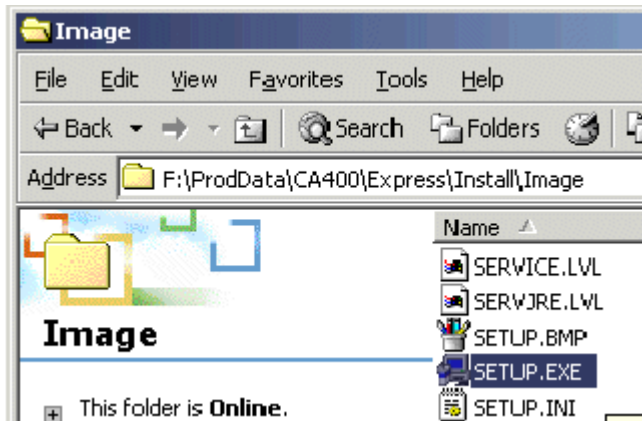
iSeries Access for Windows relies on *iSeries Support for Windows Network Neighborhood* (also known as *iSeries NetServer*) for Network Drive and Network Printer support. It is part of OS/400, and is not part of iSeries Access for Windows. iSeries NetServer enables an iSeries server to perform file and print serving in a Windows network without the need to install additional hardware or software on an iSeries server. iSeries NetServer uses the Server Message Block (SMB) protocol to communicate with the network. The underlying network protocol is NetBIOS over TCP/IP. Later in the lab, we will show you how to set up NetServer shares through iSeries Navigator to share network drives to your Windows PC Network. In addition, iSeries NetServer can be used to install iSeries Access for Windows on the PC from an iSeries file share. For more information on iSeries NetServer, see: ibm.com/eserver/iseries/netserver/. For information on installing and configuring iSeries NetServer, see "Configuring iSeries NetServer on the iSeries server" at the iSeries Information Center Web site (<http://publib.boulder.ibm.com/iseries/v5r2/ic2924/books/c415507311.htm>).

Task 1: Using Selective Setup

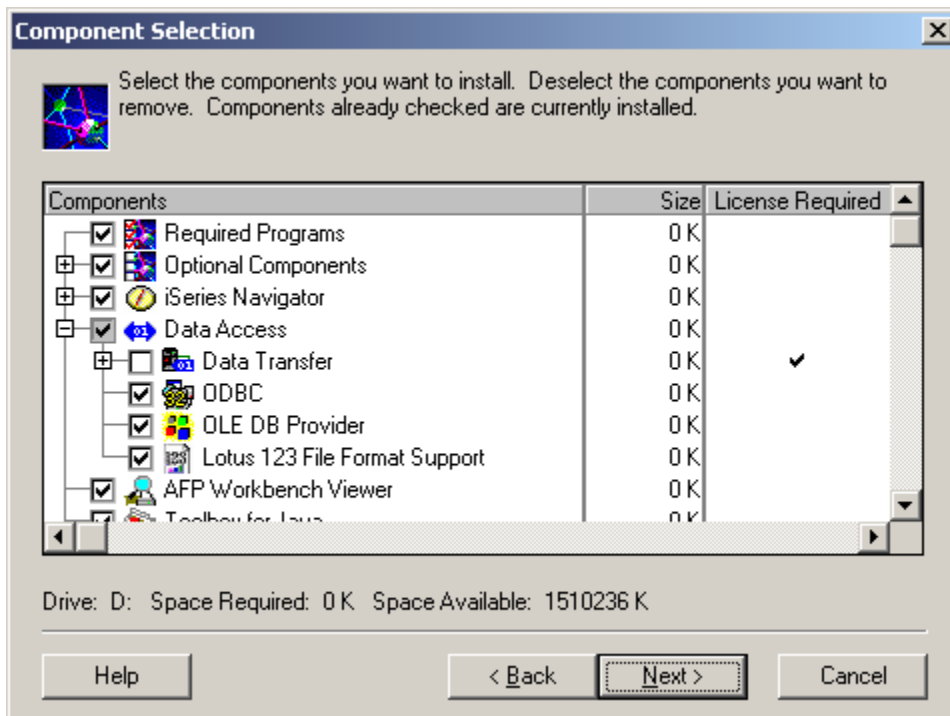
If iSeries Access for Windows is not installed on the PC you are using, go to *Appendix A. Installing iSeries Access* of this course for assistance in installing this. If iSeries Access for Windows is installed, Selective Setup application allows additional iSeries Access components to be installed or existing components to be uninstalled from your PC. The following steps take you through the process of using Selective Setup. Components may be added or removed at any time after iSeries Access is installed on the PC.

1. Using iSeries Netserver, via Windows Explorer, map a network drive to Tools —> Map Network Drive... Specify \\<system_name or ip address>\qibm. This is the install and service directory.
2. Drill down through directories to <Drive_Letter>:\ProdData\CA400\Express\Install\image

3. Double click on the **Setup.exe**.



4. Click "Next", click "Yes", then click on "Selective Reinstall". It may take a few minutes for Selective Setup to determine which components are already installed on your PC client.
5. The Component Selection panel, as shown below, contains a listing of all the components available for iSeries Access. Those with a check mark next to them are already installed on your PC. Those without a check mark are available to be installed on your PC.
6. Navigate the component listing to see the components installed. Refer to *Appendix A. Installing iSeries Access* for a list of required and recommended components for this lab exercise.



Select **Cancel** to exit Selective Setup. On the Exit Setup dialog, select **Exit Setup** to end Selective Setup.

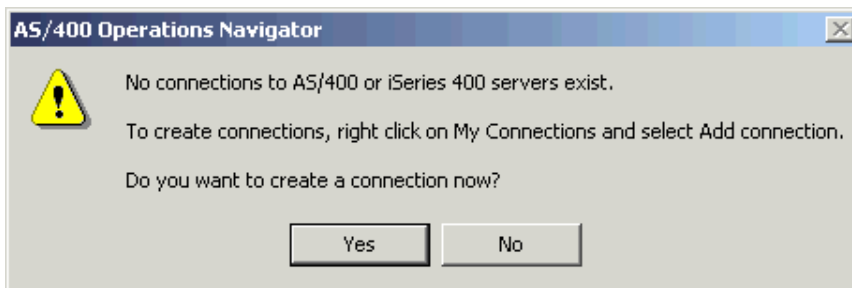
Note: If Selective Setup is used to add iSeries Access components after a service pack has been applied, the service pack must be reapplied to get fixes for the additional components. In many cases, the additional components may not work properly until the corresponding Windows service pack is reapplied.

Task 2: Configuring a Connection

Each iSeries Access function is capable of establishing its own connection if one does not already exist. If a iSeries Access function is used for the first time for an IBM eServer iSeries server, the user needs to specify a server name that is known in the TCP/IP network, or type in the dotted decimal IP address. The connection information is then stored in iSeries Navigator and is know to all iSeries Access functions.

In this exercise, you will learn how to create a connection using iSeries Navigator:

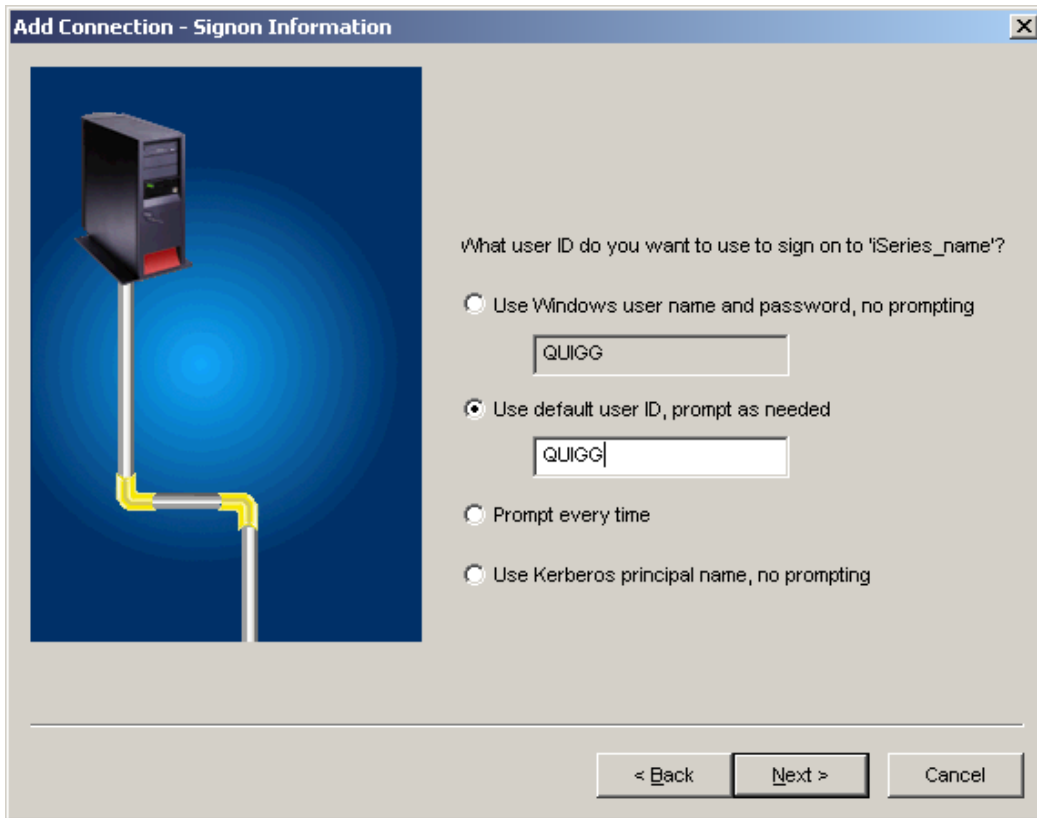
1. Double click on the **iSeries Navigator** icon on the desktop of your PC.
2. A message box will appear and the **Welcome to iSeries Navigator** wizard may start. Just close it for now.
3. If a connection to an iSeries server has not been previously made, you should see the dialog similar to the one below. If so, continue to step 4 to add a connection to the server. If a connection was already made, you will see that server listed in the left pane of iSeries Navigator.



Note: If a connection to an iSeries server already exists, you can add a new connection by right clicking on the environment (**My Connections**) in the left pane of the iSeries Navigator window. From the context menu, select **Connect to Servers** → **Add a Connection...** This will launch the **Add a Connection** wizard.

4. Select **Yes** in the message box to start creating a connection.
5. The **Add a Connection** wizard starts. Enter the iSeries **server name** (from your lab worksheet) in the first panel. Then click **Next**.

6. Select **Use default user ID, prompt as needed** for iSeries Signon Information, then click **Next**.



7. Click on the **Verify Connection** button.
8. A status window displays the progress of the connection verification. Once the connection is verified, click **OK**.
9. The previous windows will now show *Verify Connection Status: Successfully verified*. The "pipe" between the iSeries server and the PC should be green. Click **Finish**.

This exercise is now complete.

Part 2. iSeries Navigator Basic Functions

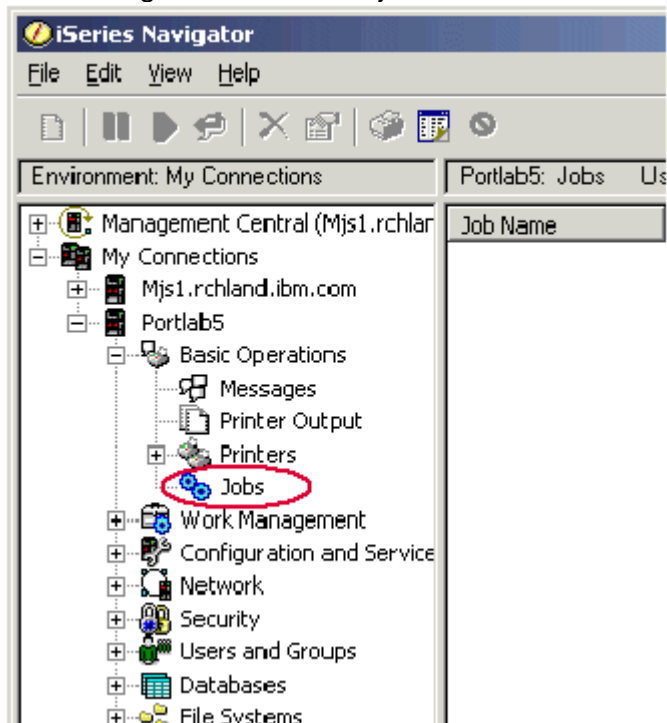
The exercises in this section only touch on a few of the many functions available with iSeries Navigator. To find out more information about iSeries Navigator, check out the IBM iSeries Navigator Web site at: ibm.com/eserver/iseries/navigator.

On the left side of the main iSeries Navigator panel, *My Connections* should be listed and underneath it, the server connection(s) you defined previously should be listed. Click on the "+" beside the connection to the **Server Name** (from your lab worksheet) and see what functions are supported. Depending on which version of OS/400 is installed on an individual iSeries server, various functions of iSeries Navigator will be listed.

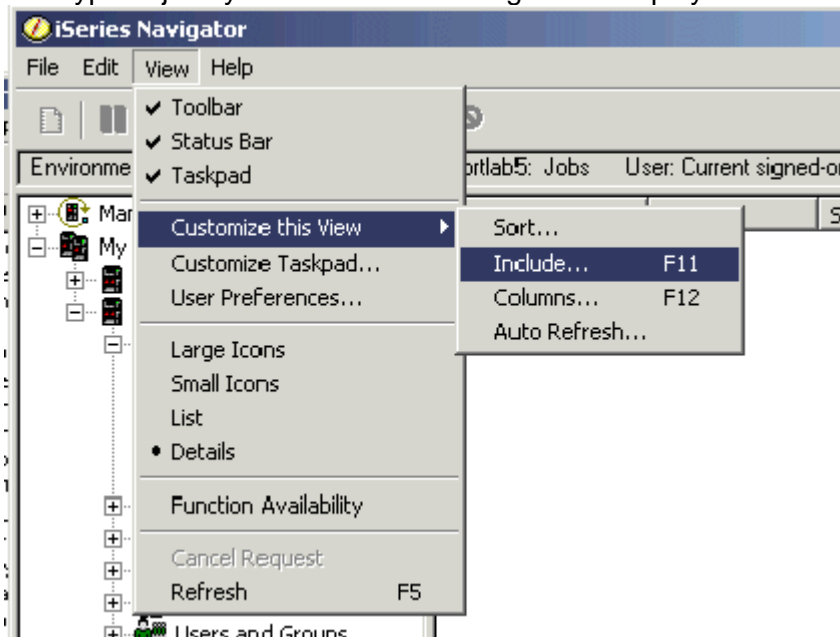
Task 1: Basic Operations, Working with Jobs

iSeries Navigator provides a graphical interface to work with jobs

1. Expand **Basic Operations**. Left click to open **Jobs** on the left side of iSeries Navigator. Wait while the server generates a list of jobs.

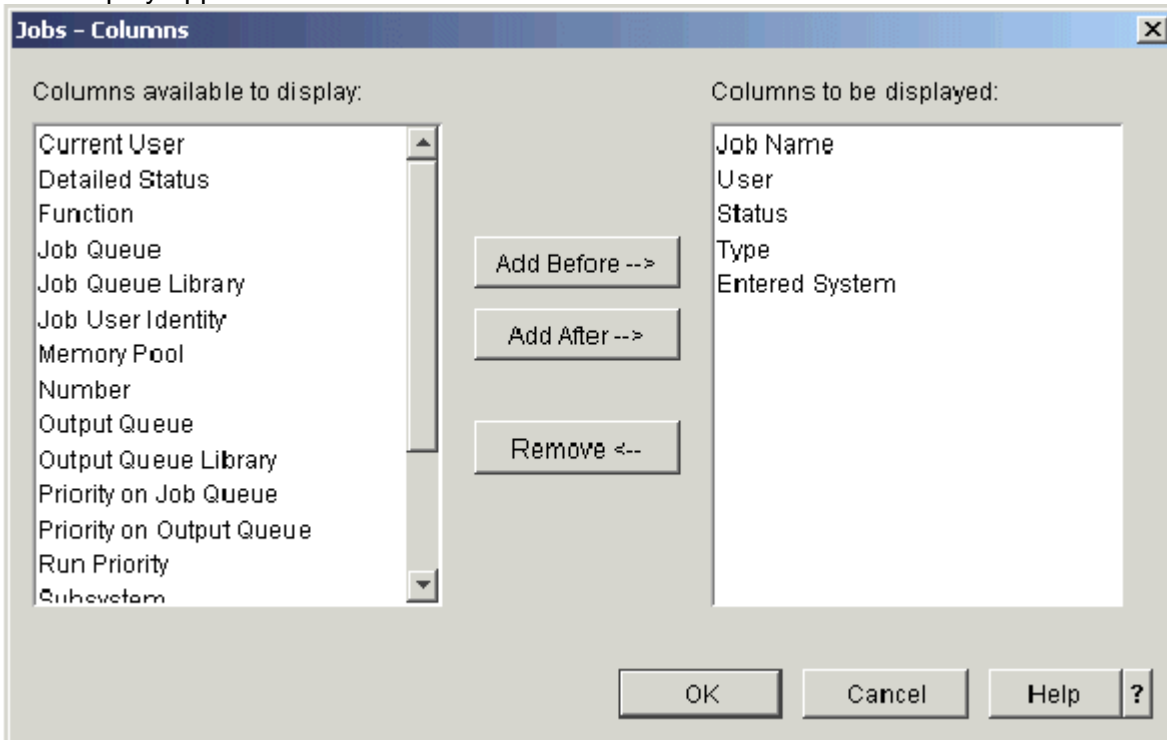


2. On the menu bar, select **View** → **Customize this View** → **Include...** This will allow you to specify what type of jobs you want iSeries Navigator to display.



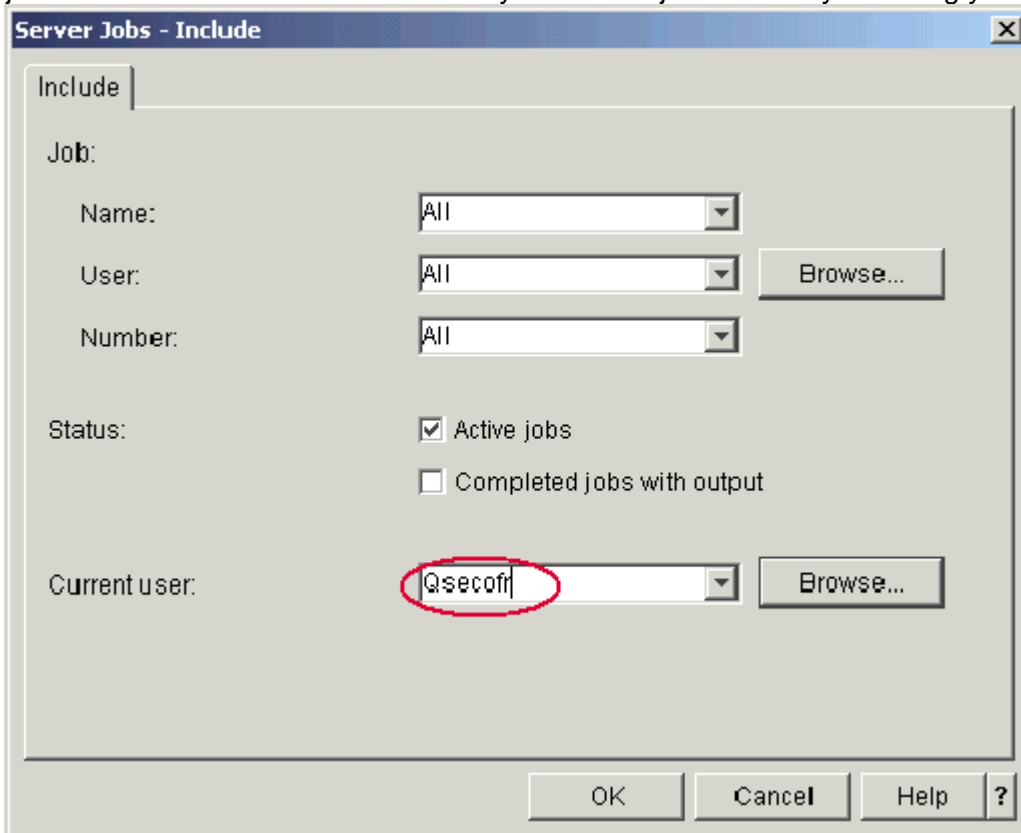
3. Select the pull-down next to *User*. Select the **All** and **OK** buttons to return to the iSeries Navigator display. iSeries Navigator will automatically rescan the server and refresh the list with items that meet your new parameters. In this case, listing jobs for all users on the server.
4. Right click on one of the jobs and select *Properties* from the context menu. Click on the tabs to display the various properties of this job. Click Close when you are finished.
Note: You can display the job log of a specific job in iSeries Navigator by highlighting the job, right-clicking, and selecting **Job Log**.

- Each iSeries Navigator function displays a default set of columns of information. If desired, you can tailor the display (and save it permanently, if you wish). From the menu bar, select **View** → **Customize this View** → **Columns**. This dialog allows you to specify which columns of information will be displayed and in what order. The *Columns available to display* box lists the columns by name, in the default order as they appear on the iSeries Navigator display. You can delete any column from the list, or use the "Add Before" and "Add After" buttons to modify or rearrange the way the display appears. Click **OK** to close the window.



- Expand **Work Management**. Select **Server Jobs** from the left pane. The right pane will display the current OS/400 server jobs. This includes prestart jobs used by various servers to service user requests. You can manage these jobs from this display. Right click on one of the jobs and review the various options available to you, such as viewing the job log for that job.

7. It is often useful to see the server jobs that are running on behalf of a particular user. This panel shows you the information in the **Current User** column. To limit the jobs being displayed to those servicing a particular user, select **View** → **Customize this View...** → **Include...** from the menu bar. From the "Include" dialog, click on the "Browse..." next to **Current User** and select your user ID (or simply type your iSeries user ID in the edit box). Click **OK**. Click **OK** again. The list of server jobs will now be refreshed to show only the server jobs currently servicing your user ID.



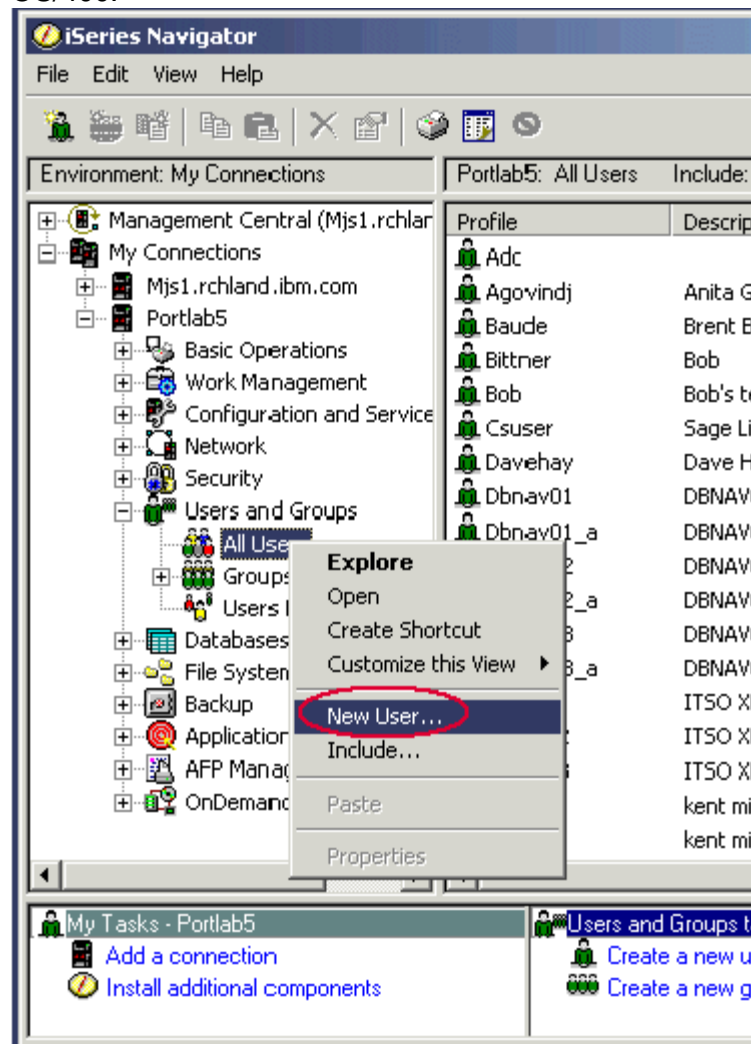
Note: Do **NOT** stop any of these jobs as they must be running in order to complete the lab.

Task 2: Working with Users and Groups

Users and Groups support in iSeries Navigator allow you to work with and create OS/400 user profiles, similar to the *CRTUSRPRF* or *WRKUSRPRF* commands in the OS/400 text-based interface. iSeries Navigator expands upon those commands to include additional functions, such as adding a system distribution directory entry, registering a user with Lotus® Domino®, and copying users across iSeries servers.

1. Expand **Users and Groups**. Click on **All Users**. This shows the list of current user profiles on the iSeries server.
2. Right click on **All Users** and select **New User** from the context menu.

Note: You need the Security Administration (*SECADM) special authority to create a new user in OS/400.



3. On the *New User* panel, type a user name of your choosing. (You may wish to write this down for future reference.) Then type in a password for the new user.
4. Click the **Networks** button. If you have the Domino plug-in application installed on your PC, you can register the user with Domino here.
5. Click **OK**.

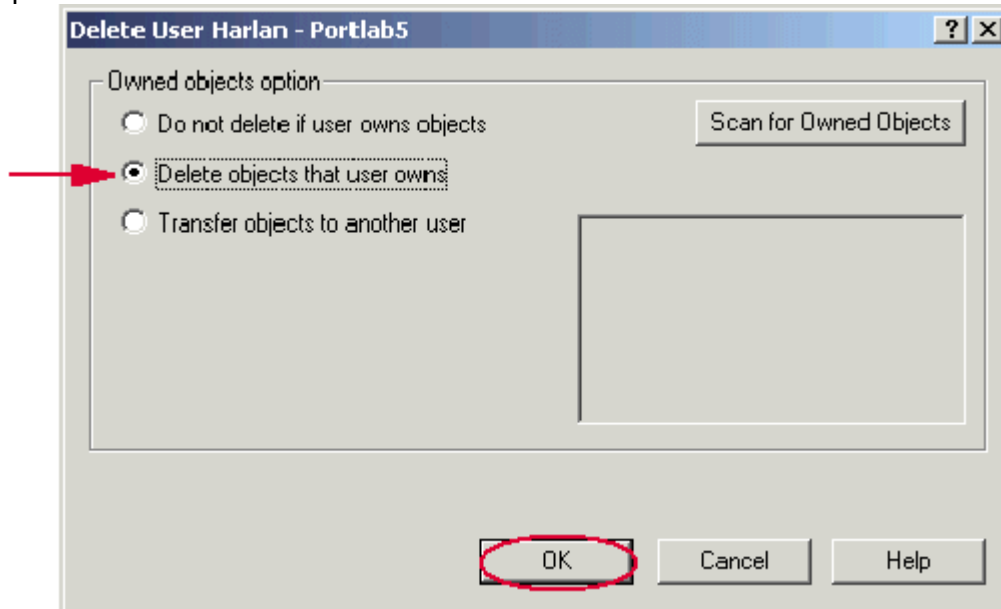
6. Click **Add** to create the new user.

The screenshot shows a dialog box titled "New User - Portlab5". It has a standard Windows-style title bar with a question mark and a close button. The dialog contains the following elements:

- User name:** A text box containing "HARLAN".
- Description:** A text box containing "Harlan Bellweather".
- Password:** A text box containing "xxxxxxxx".
- Options:** Three checkboxes:
 - User must change password at next sign-on
 - Allow client applications to share this password
 - Enable user for processing
- Navigation:** Five icons with labels: "Groups" (people icon), "Personal" (document icon), "Capabilities" (lock icon), "Jobs" (gears icon), and "Networks" (server icon).
- Buttons:** Three buttons at the bottom: "Add" (circled in red), "Cancel", and "Help".

7. Change the password of the new user profile through iSeries Navigator. In the left pane, expand **Users and Groups**. Click on **All Users**. Double click on the user in the right pane. Type a new password in the Password field, and uncheck the "User must change password at next logon" box. Click **OK** on the properties dialog.
8. You can now copy the user that you just created. Drag the user ID that you just created from the list of users in the right panel and drop it into **Users and Groups** in the left panel.
9. On the *New User Based On <User_ID_specified_in_step_3_above>* panel, type the user name of your choosing. (You may wish to write this down for future reference.) Then, type a password for the new user.
10. Select **Add** to create the second user.
Note: If you had another server configured in iSeries Navigator, you could have dropped that user onto **Users and Groups** under a different server in the left panel to copy the user across server!

11. In the list of users, click <User_specified_in_Step_3>. Now, press the **ctrl** key and click on <User_specified_in_Step_9> from the list of users. Both users should now be selected. Right click and select **Delete** from the context menu. For each user, you will be presented with a dialog where you can specify how owned objects for the user will be handled. Select the “**Delete objects that user owns**” option and click **OK** for both users.



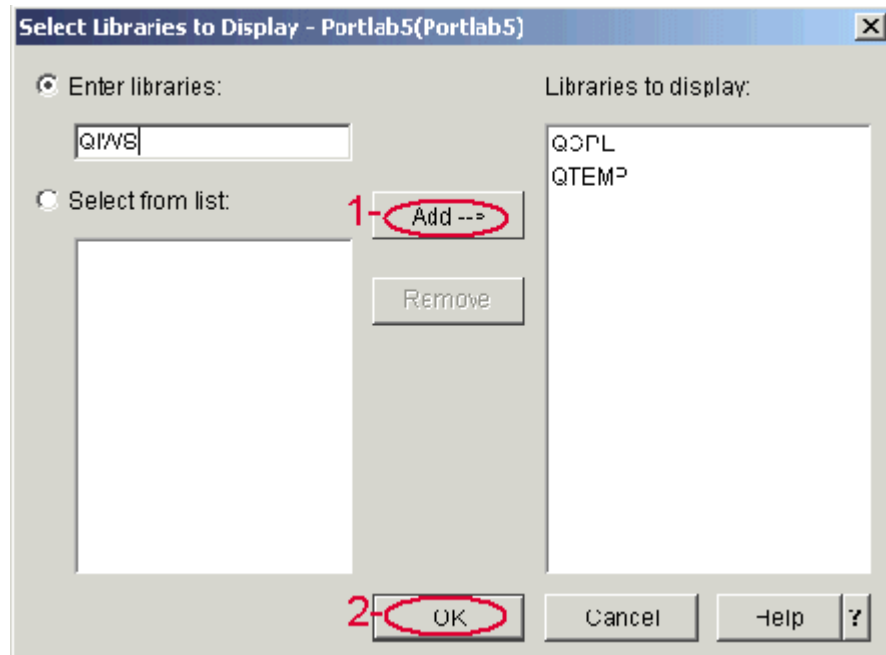
Task 3: Working with Databases

Database functions allow you to create and work with DB2® UDB for iSeries database objects in OS/400. Supported operations include creating and running SQL scripts, creating and managing stored procedures, collecting SQL performance data, managing SQL indexes, support for complex objects, and more!

1. Click the "+" next to **Database** on the left side of iSeries Navigator.
2. Click the "+" next to **Libraries**. The default list only contains libraries that are associated with the user portion of your library list.
3. To add other libraries to the list, right-click on **Libraries** and select **Select Libraries to Display...** from the context menu.

Note: The *Select from List* radio button will get a list of all libraries on the server. This may take a while to complete.

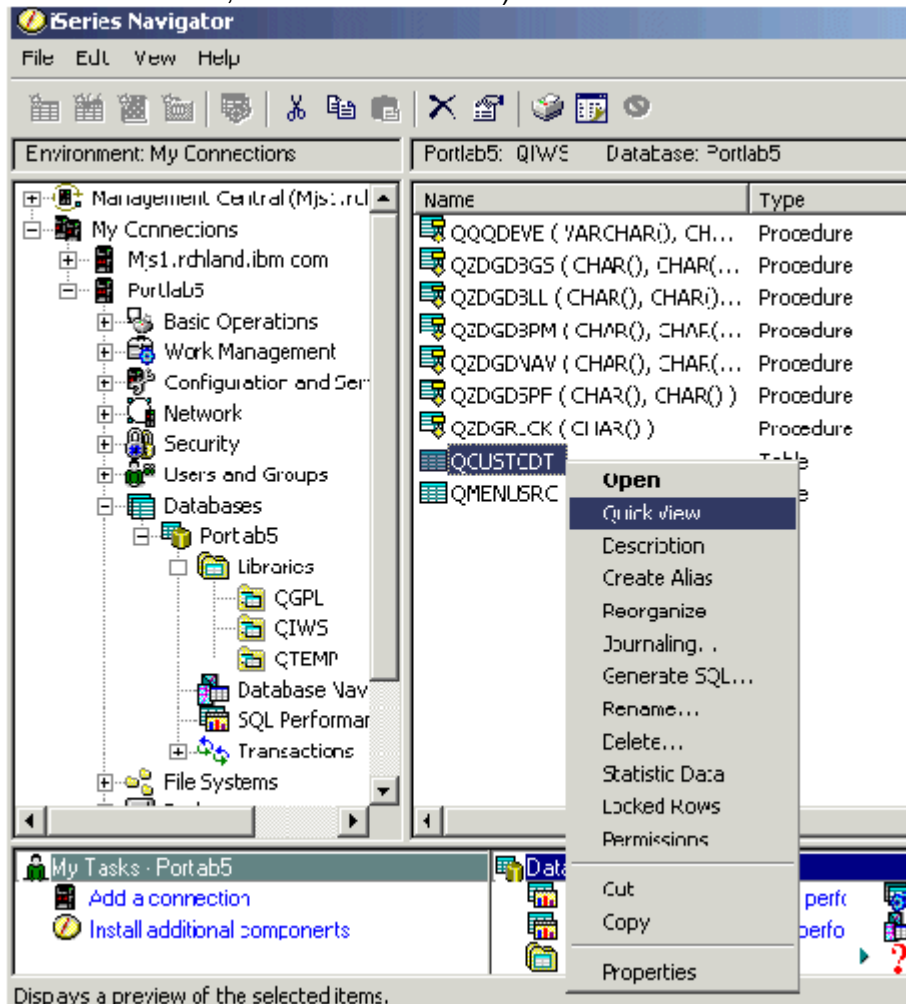
4. For the purpose of this lab, we will use the *QIWS* demo library that is shipped with iSeries Access for Windows. Select the radio button **Enter Libraries** and enter *QIWS* for the library name. Click **Add** to add the library to the list of libraries to display. Click **OK** to close the **Select Libraries to Display** window.



Using Database Quickview

1. Click on **QIWS** to display its contents, We will work with the *QCUSTCDT* demo file.

- Right click on QCUSTCDT and select **Quickview** from its context menu. (Quickview is a utility that will display all fields and all records of a file in a grid format. If you are familiar with the iSeries Access Data Transfer function, note the similarities.)



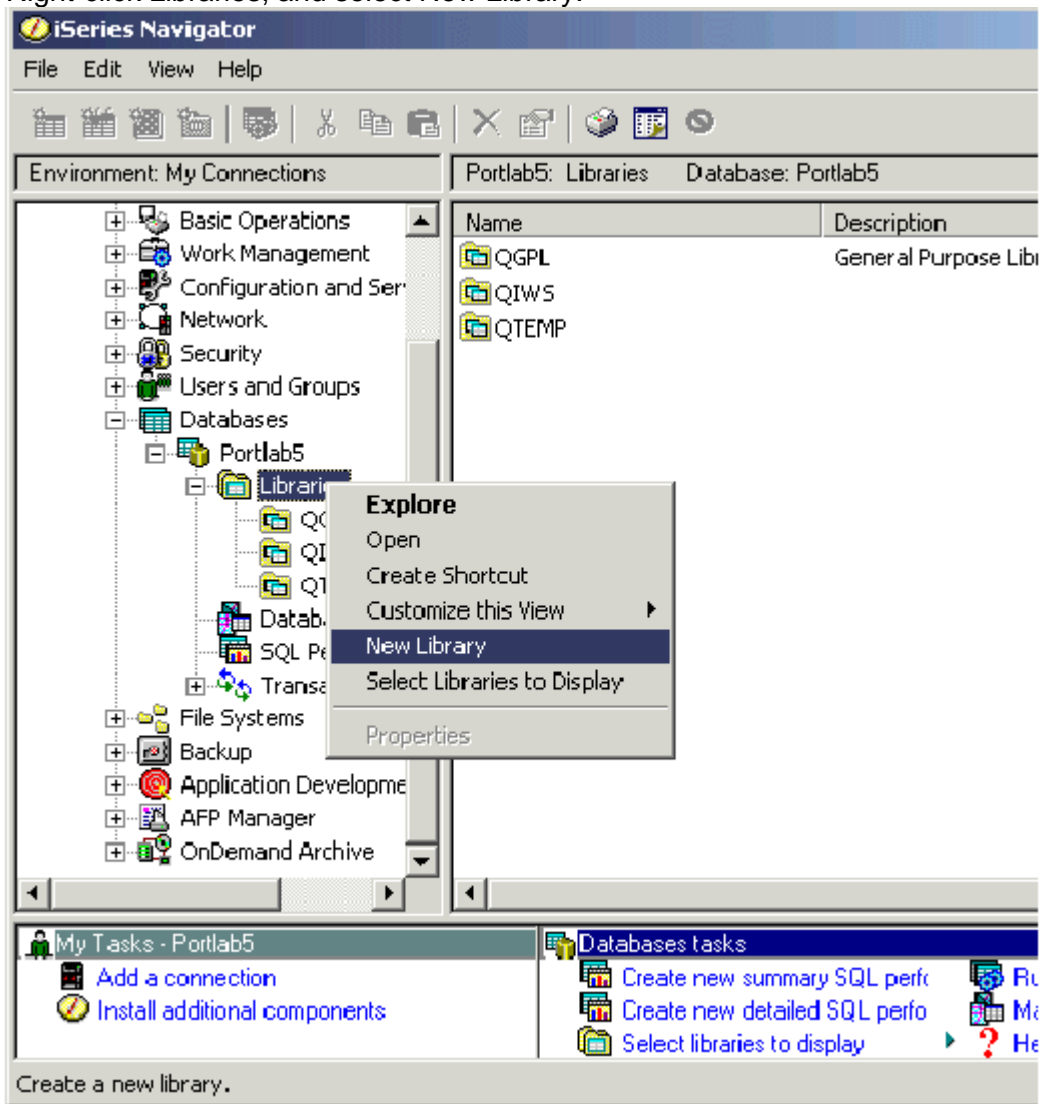
- You can copy some or all of the data in the Quickview to another Windows application, such as a spreadsheet or an editor. With the left mouse button, click one of the column headings; hold the left button and move the mouse over several other column headings to select them also. Then, right click in any of the columns and select the **Copy** option. This will put the selected data into the Windows clipboard. From here, you can paste the data into another application. Try pasting it into the Windows Notepad.
- Close the Quickview display.
- Right click on **QCUSTCDT** in QIWS library and select **Properties**. This window will allow you to modify the table properties for the file. Close the Properties window after you finish.

Creating a Library and Using Database Copy/Paste

It has always been possible to use OS/400 text-based CL commands to create libraries and to copy objects from one library to another. Now you have a graphical way to do the same thing.

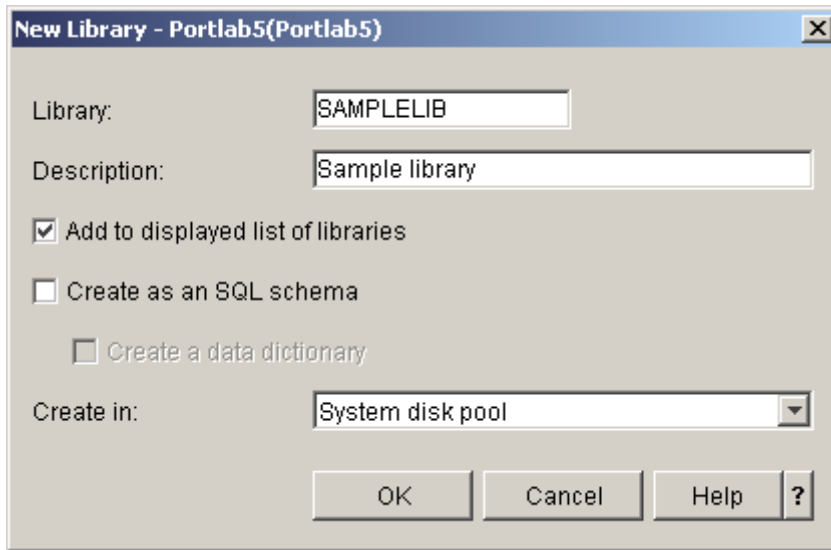
Create a sample library, named SAMPLELIB, by:

1. In the iSeries Navigator window, expand your server —> Database —> and the database that you want to work with (probably the same as the server name).
2. Right-click Libraries, and select New Library.



3. On the New Library dialog, type SAMPLELIB in the name field.
4. Specify a description (optional).
5. Select 'Add to list of libraries displayed'
6. Create the library in the system disk pool.

7. Click OK.

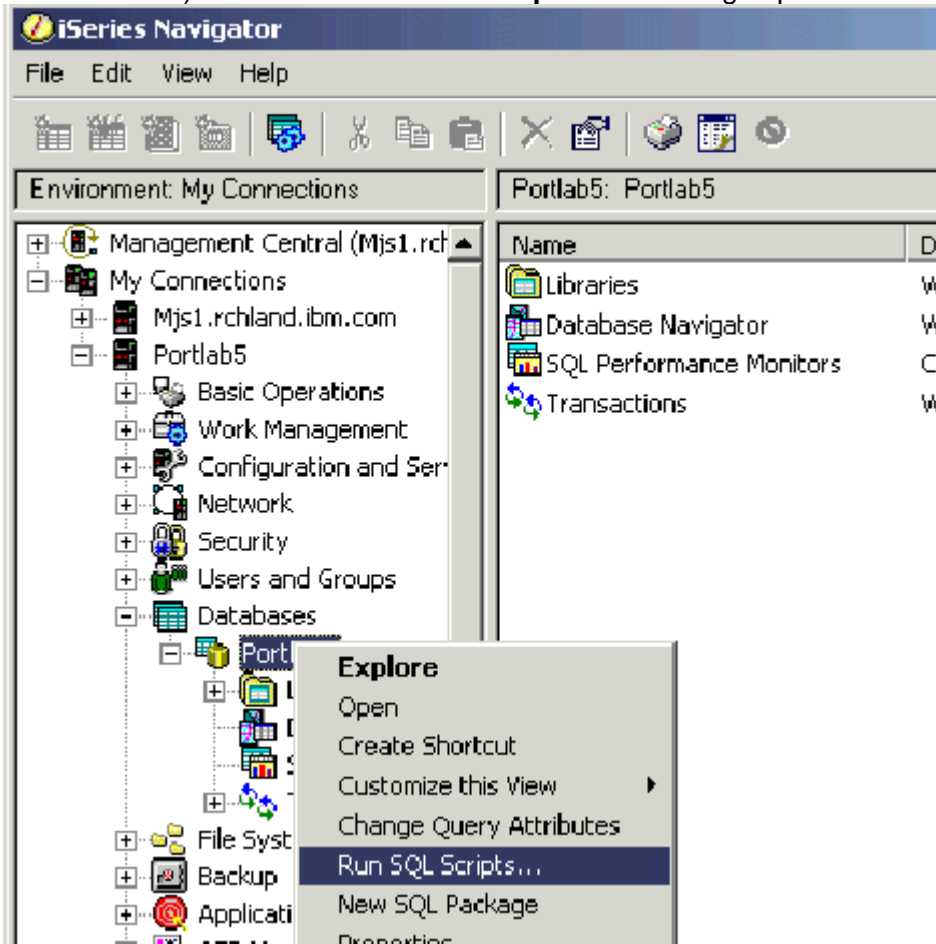


The newly created library will be displayed under the **Libraries** tree.

1. Open the QIWS library again and right click on **QCUSTCDT** file.
2. Select **Copy** from the context menu.
3. Right click on the SAMPLELIB library you just added and select **Paste**. Just as in Windows Explorer, this will add the **QCUSTCDT** file you previously selected with "Copy" to your new library.
4. Right click on **QCUSTCDT** in the newly created library from above and select **Properties**. This window will allow you to modify the table properties for the file. Close the Properties window when you are finished.

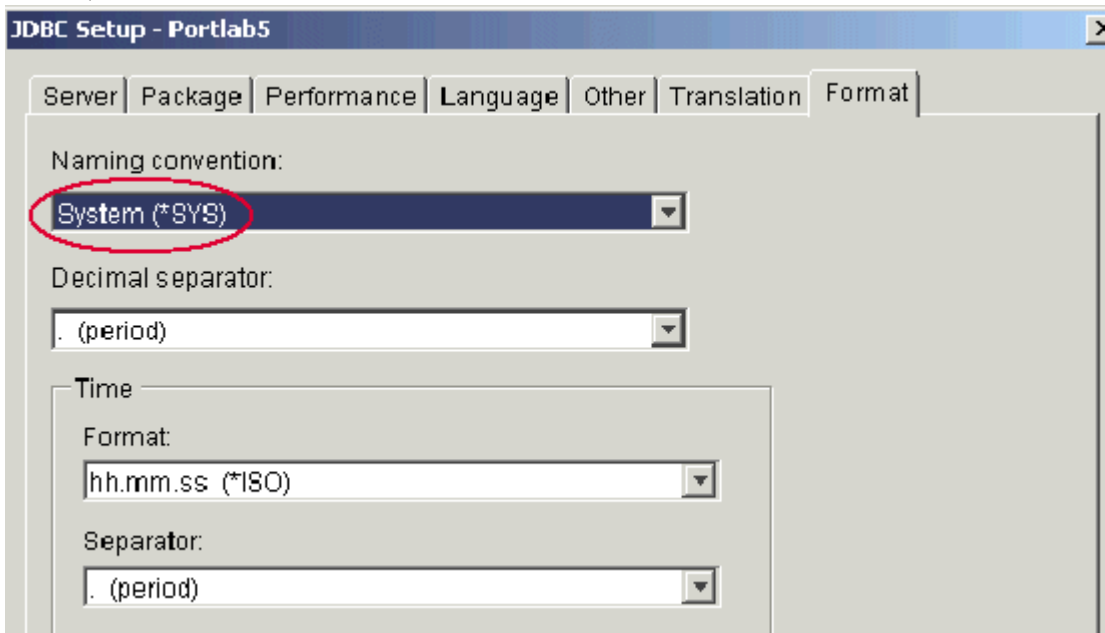
Running SQL Scripts

1. In the left-side panel of the iSeries Navigator, under **Database**, right-click **Server Name** (from your lab worksheet) and select **Run SQL Scripts...** This brings up **Run SQL Scripts** panel.



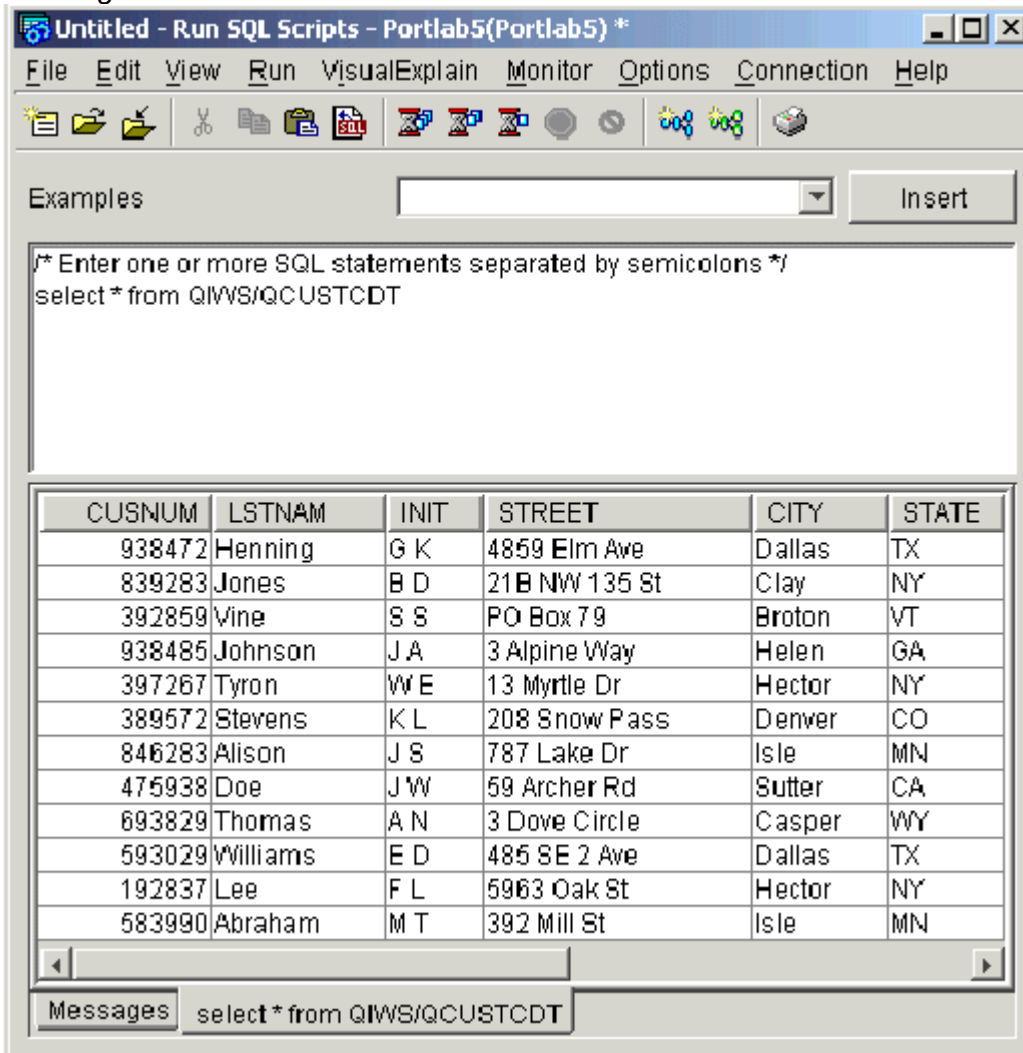
2. From the menu bar, click on **Connection** and select **JDBC Setup...** This brings up the **JDBC Setup** panel.

- For this exercise, click on the last tab named **Format** and make sure the field **Naming Convention** has a value of ***SYS**. This dictates that a "/" will be used as the separator between file and library names. **Note:** Upon completing this exercise, you may wish to change the naming convention back to ***SQL**.



- Click the **OK** button to go back to **Run SQL Scripts** panel.
- From the menu bar, click on **Options** and select **Include Debug Messages in Job Log**. This makes the DB2 UDB for iSeries query optimizer put its messages into the job log for your review.
- Type in the following SQL statement:
select * from QIWS/QCUSTCDT
 From the menu bar, click on **Run** and select **All** to run the SQL statement.
Note: If the select statement above fails, make sure you successfully completed step 3 above.

7. The result will be displayed on the bottom pane of the window. If an error occurred, select the *Messages* tab.



8. From the menu bar, click **View** and select **Job Log...** You will see a job log window with all messages including DB2 UDB for iSeries query optimizer messages (those about cursor, PREPARE, blocking, arrival sequence, etc.). Double-click on any **Message ID** (*SQLxxxx* or *CPIxxxx*) and detailed information of the message will appear. After reviewing the options available on the job log, close the job log window. Close the **Run SQL Scripts** window.

Note: If you save this SQL command to the desktop or a personal folder, you can run this script anytime, whether iSeries Navigator is running or not. The *Run SQL Script* panel's title bar will show **Not Connected**. Since you closed your iSeries Navigator session, this is a reminder of your connection status. From the *Run SQL Script* panel, you can start a new connection by clicking on the **Connection** pulldown menu and selecting **Connect to Server...**

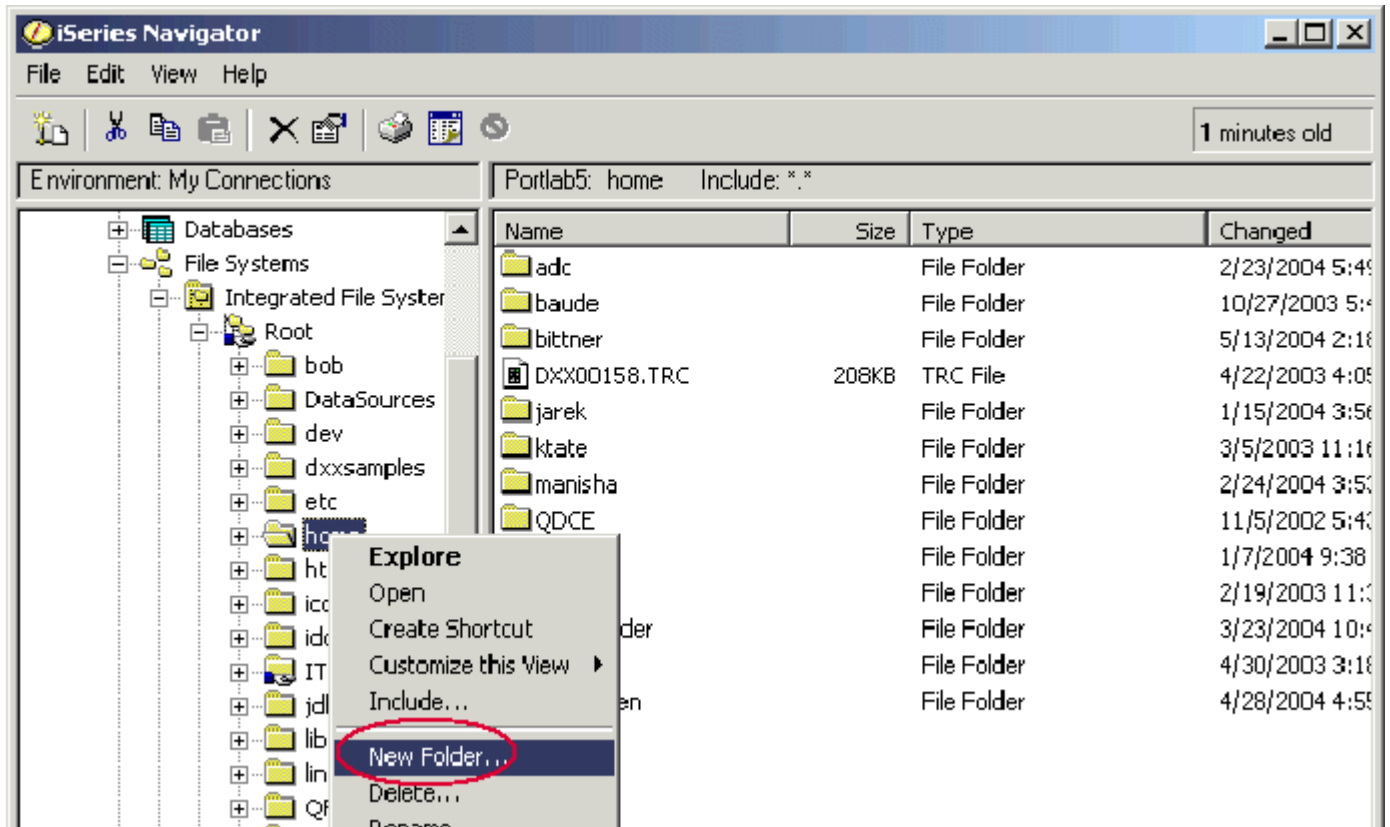
Task 4: Working with File Systems

File Systems allow you to work with the various file systems supported by the OS/400 Integrated File System (IFS). Support includes drag and drop, creating, deleting, and renaming of files on the IFS, creating and managing iSeries Netserver File Shares, and creating and managing User Defined Files Systems (UDFS).

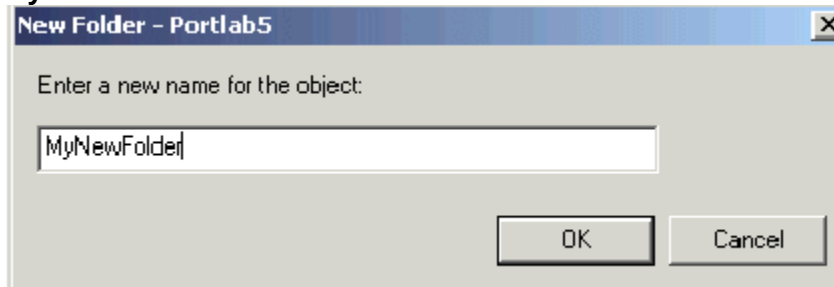
1. Click on the "+" to open **File Systems**, then on "+" next to **Integrated File System**. Some file systems will always be found; others may or may not be found, depending on other products installed on the server. An example of some file systems you may see are:
 - Root** — The "/" file system
 - QOpenSys** — Compatible with UNIX®-based standards
 - QDLS** — Document library (folder) file system
 - QSYS.LIB** — Library file system
 - QFileSvr.400** — Access to file systems on remote iSeries server
 - QLANSrv** — Access to files stored on Integrated IBM eServer xSeries® server
 - QNetWare** — Access to a Netware server
 - QOPT** — Data stored on optical media
 - QNTC** — NetClient
2. Click on the "+" to open QSYS.LIB; this will display all of the OS/400 libraries you have permission to access. You may have to wait while the list is generated. (OS/400 is searching the entire library file system.)
3. Scroll through the list until you find the QIWS library we used in the database section.

Creating a New IFS folder

1. Find *Root* in the left pane. Double click on *Root* and select the 'home' directory. Right click on 'home' and select **New Folder...**



This will create a new directory under 'home.' Specify a name for this new folder, for example, **MyNewFolder**.



2. Look in the right pane. You should now see the new folder. You can copy some files from your PC to this new IFS folder. To do so, simply open Windows Explorer, find the files you would like to copy, and drag them over to the **MyNewFolder** folder you just created. You have just copied those files to that IFS directory on the iSeries server.

Sharing an iSeries Directory

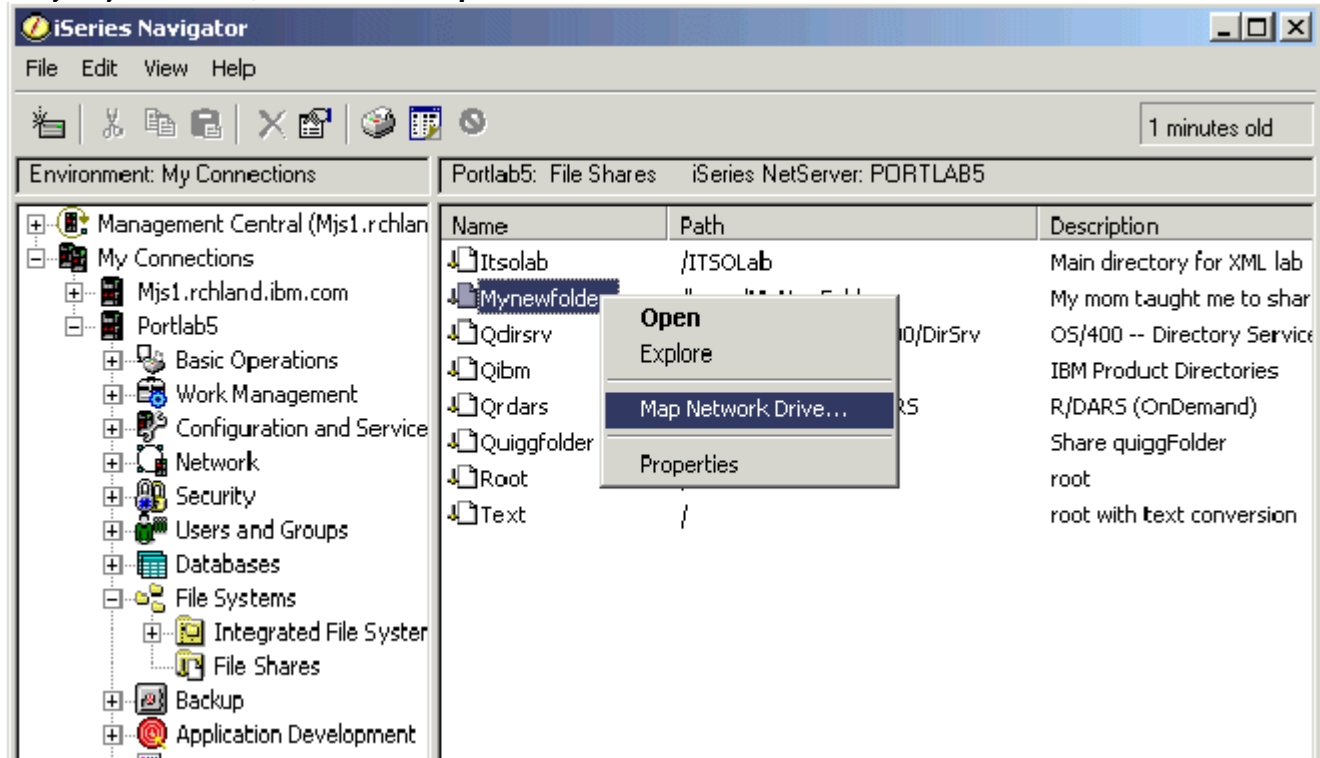
iSeries Netserver file shares are used to provide network drives. The following steps show you how to create and work with NetServer file shares for OS/400 directories.

1. Right-click on the **MyNewFolder** folder you created above and select **Sharing** —> **New Share...**
2. In the iSeries Netserver File Share dialog that comes up, enter:
 - A **name** for the share. This will default to the name of the folder. You can either use that name or type a different name that you want this directory to be known as to your Windows PC network.
 - A **description**. Use your imagination.
 - Allow **Read/Write** access.
 - Leave the maximum number of user at **No maximum**.

3. Click **OK**. You have now shared a new iSeries directory.

Note: To stop sharing a directory or printer, open the iSeries Netserver window by expanding **File Systems**, right click on **File Shares**, and select **Open iSeries Netserver**. From the iSeries Netserver window, expand **Shared Objects** and select the object you want to stop sharing. Then click on the stop button from the tool bar, or right-click on the object you want to stop sharing and select **Stop Sharing** from the context menu.

- We now want to map a drive letter to the directory you just shared. In the iSeries Navigator window, open **File Systems** → **File Shares**. In the right window of iSeries Navigator, you see all of the directories that are already shared through iSeries Netserver. **Right mouse click** on the directory you just shared, then select **Map Network Drive...**



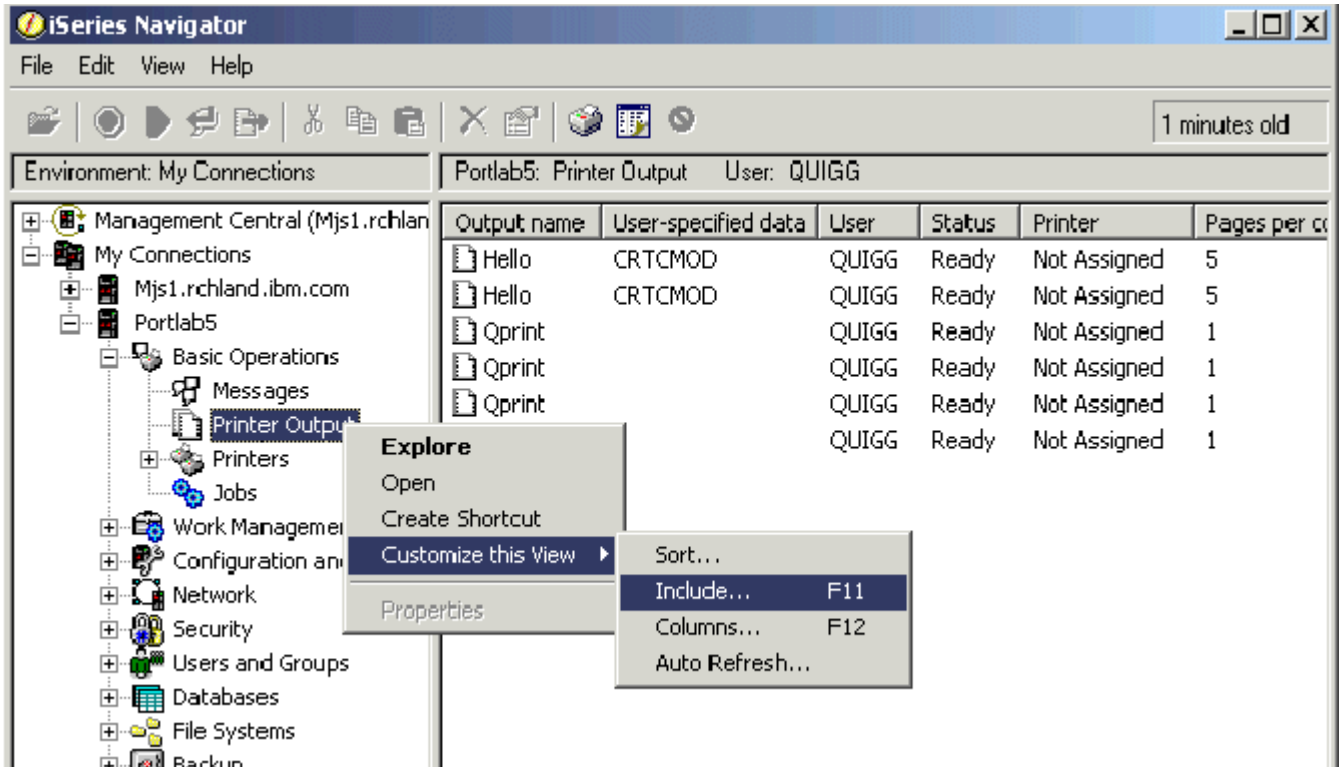
- Leave the **Local Drive Letter** as it is, **uncheck** the box **Reconnect at logon**, then click **OK**.
Note: If you receive the following error message, "The network path was not found," check the PC file C:\WINNT\system32\drivers\etc\LMHOSTS for an entry related to this iSeries server. You may need to delete the existing entry and try the **Map Network Drive...** operation again. (Experience shows that this sometimes requires a PC reboot to clear any cached values picked up from the LMHOSTS file.)
- Open Windows Explorer. Under **My Computer** in the left Explorer window, notice the mapped drive that you just created. Copy one or two files from your PC's hard disk to the shared directory. Try to find a text file on your PC (for example, AUTOEXEC.BAT) and copy it to the shared directory. Try to edit, rename, and delete the files. (Make sure you do that on the shared drive, not on your PC's hard disk!)

Note: Notice that some of the IFS root directories (for example, the QIBM directory) have a hand in their icon. This means that these directories are shared through iSeries NetServer.

Task 5: Working with Printer Output

Let's begin by looking at *Printer Output*. This allows you to work with the spool files on the iSeries server.

1. Expand **Basic Operations**, then select **Printer Output**.
2. By default, you will only see print jobs for your user ID. To see print jobs for all users on the server, right click on **Printer Output** → **Customize this View** → **Include...** option change **User** from **Current User** to **All**.



Now, click **OK** and see how many print files are on the server. You can sort the list of the printer output according to the creation date by clicking the **Date Created** heading column.

3. Double click on any print file in the list. Select **View** → **Zoom** from the pulldown menu, and change the size of the printout to a larger size for easier viewing. You are now using the *Advanced Function Presentation (AFP) Workbench for Windows* viewer.

Note: The AFP Viewer enables the user to view in a "What You See Is What You Get" (WYSIWYG) manner and print SCS, AFP spool files, and many popular PC file formats. You can activate the AFP Viewer manually from the iSeries Access folder to view PC files or automatically via the Printer Output functions of iSeries Navigator to view OS/400 spool files.

Part 3. Security Using iSeries Navigator

A feature of iSeries Navigator that allows an iSeries administrator to easily manage system security settings is the Security Wizard. By answering a series of questions about the applications, users, environment, and network for your iSeries server, the Security Wizard will generate a detailed list of recommended server settings. It will show you what the current settings are and what iSeries Navigator recommends they be changed to; and allows you to view, print, and store reports that list these values. The reports also include a detailed explanation of what each setting is and what the various values are. The Security Wizard allows you to customize which of the recommendations you want to accept, and will actually apply the accepted setting changes for you if you choose. During this lab, we will NOT actually make the recommended changes as it could affect other iSeries users.

In this lab, you will learn how to:

- ◆ Use the Security Wizard to see recommended security settings using iSeries Navigator interfaces.
- ◆ Work with (review and change) OS/400 system values.

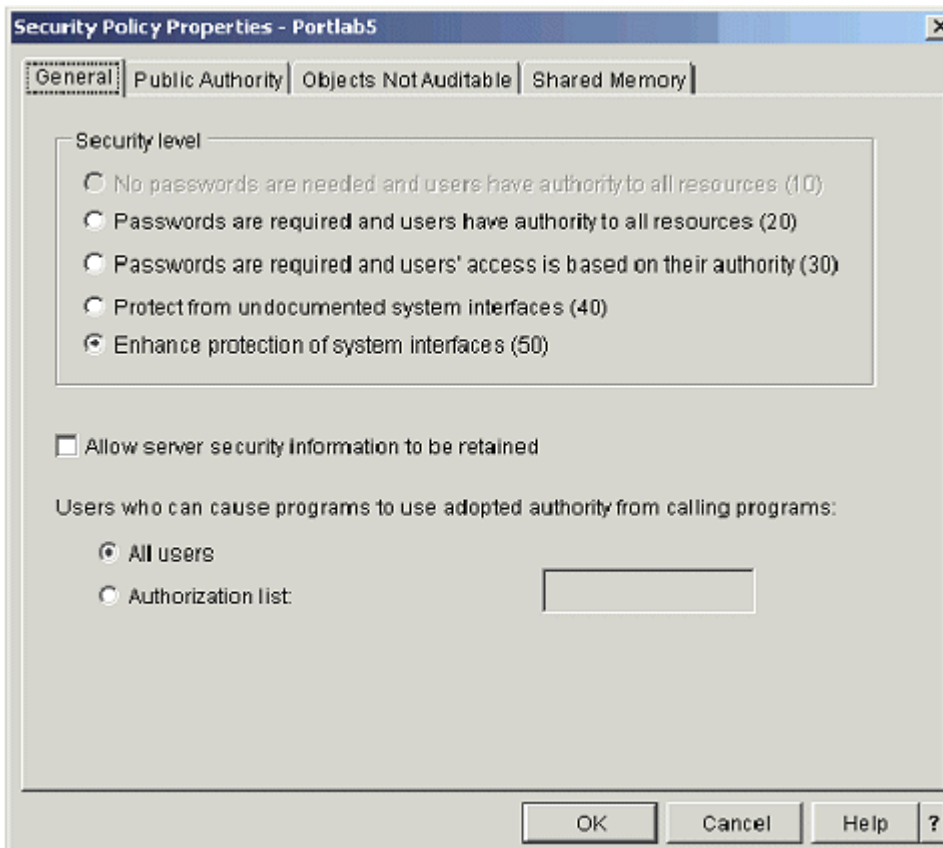
Task 1: Basic Security

***** IMPORTANT *** Do NOT actually make any changes to the server settings using the Security Wizard!!!! We do not actually want to make any security changes during the lab, on the final screen, press **Cancel**.; do not click on the Finish button!**

From the Security component of iSeries Navigator, you can manage your server security settings, administer authorization lists, and use the Security Configuration wizard.

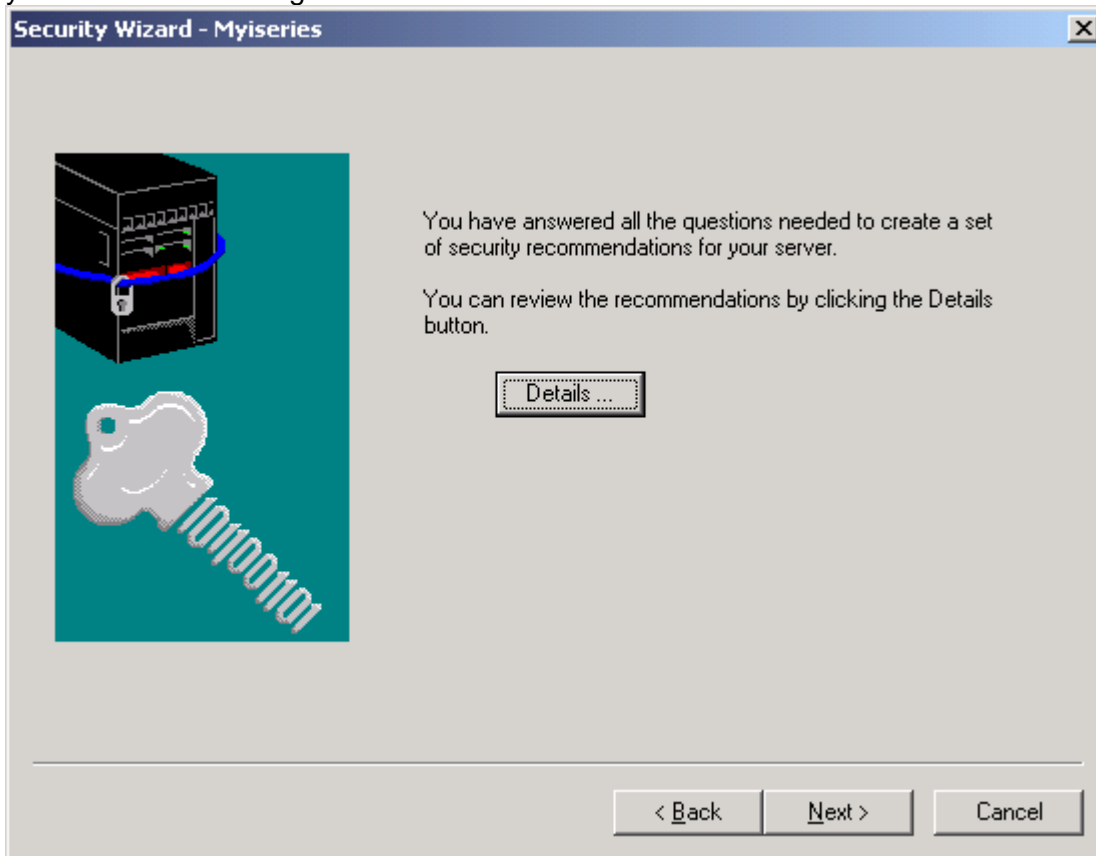
1. From the main iSeries Navigator window, expand **Security**, then select **Policies**. Double click on **Security Policy** to open the properties.

Note: The **General** tab under the **Security Policy Properties** window tells you the current security level of the server.



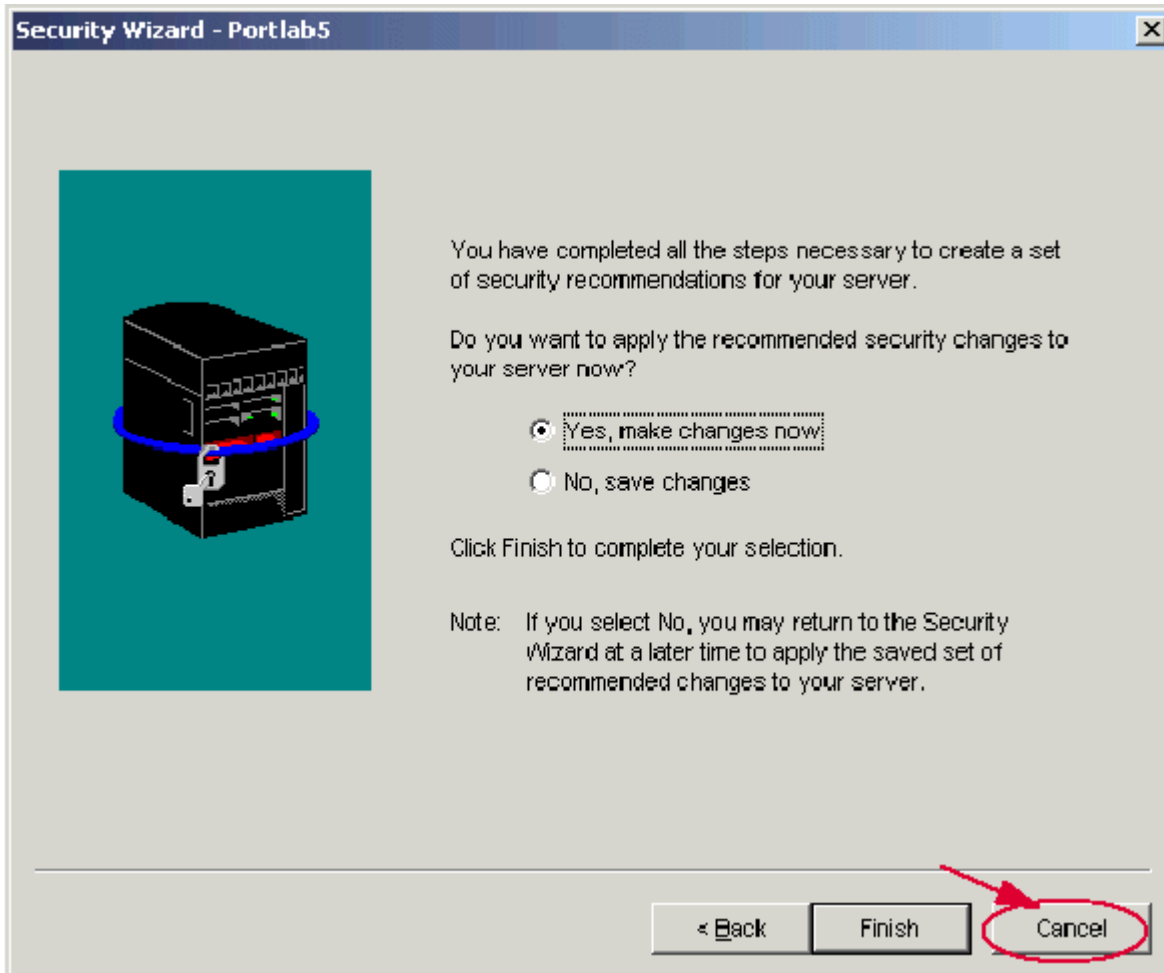
2. Review the other tabs that describe aspects of system security. Click **Cancel** when finished.
3. Right click on **Security** (in the left panel). Select **Configure** on the context menu. This brings up the security wizard which will help you evaluate your iSeries server settings related to security, will provide recommendations for modifications to these settings based on your environment, and will optionally make the recommended changes for you.

4. Navigate through the wizard by clicking on **Next** and note the questions and options provided, until you reach the following screen:



5. Click the **Details** button to see the recommended security settings for your system. In the *Summary of Recommendations* dialog, click on the tabs to see all the different settings. Note that you can uncheck any of the recommended changes if you do not want that setting for your iSeries server. Click **OK** on the *Summary of Recommendations* dialog when finished reviewing the settings.
6. Back in the Security Wizard, click **Next** to advance to the next screen. Here you can specify where you want the Security Wizard to save the reports it will generate. The default is to save them in the Client Access service directory. Note this location and click **Next**.
7. From this panel, you can view both the User and Administrator reports. Click the **View Administrator Information Report** button to see the information in this report. When finished looking at the report, click **OK** to return to the wizard.

8. Click **Next** to move to the last page of the Security Wizard. When you are done, press **Cancel**. not the Finish button!



For reference, there is also an online version of this wizard, see:
ibm.com/redbooks/tstudio/secure1/advisor/secwiz.htm

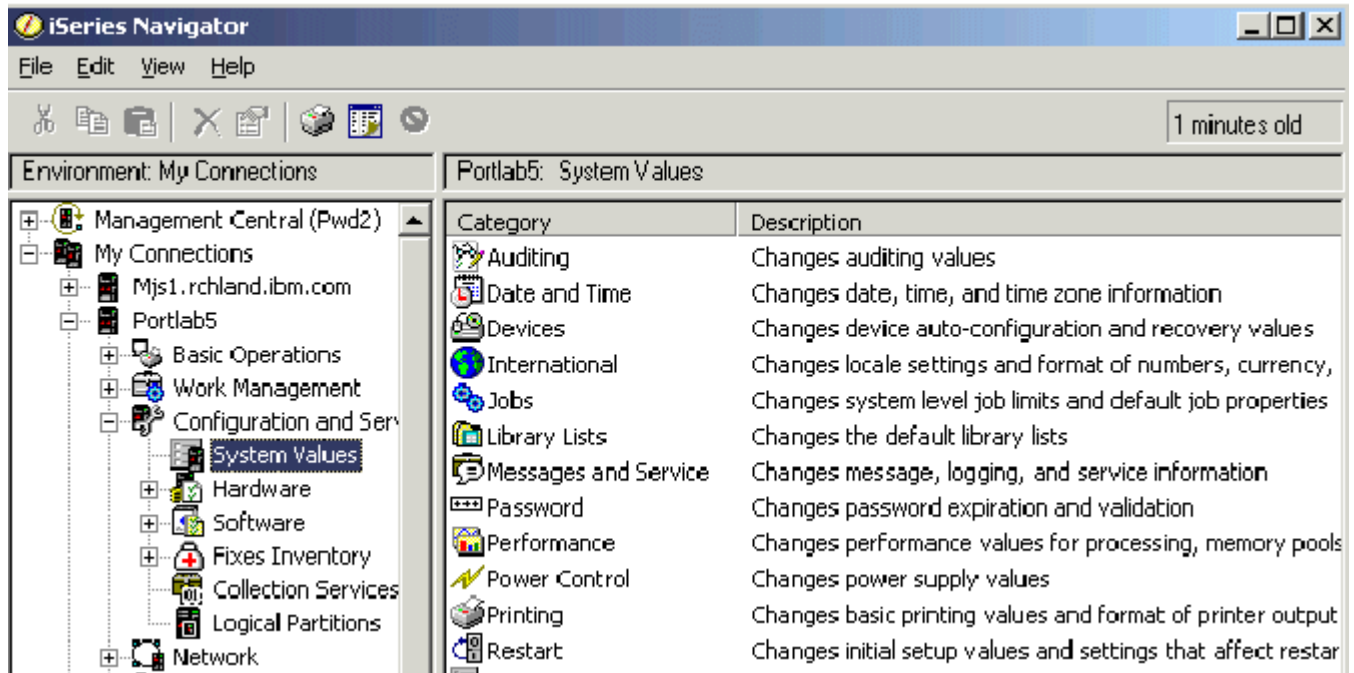
Task 2: Working with System Values

***** IMPORTANT *** Do NOT actually make any changes to the system values during this task!!!!**

This exercise requires that Management Central be installed, configured, and started. For details, see the "Get started with Management Central" section of the iSeries Information Center at: <http://publib.boulder.ibm.com/series/v5r2/ic2924/info/rzaih/rzaih1b.htm>.

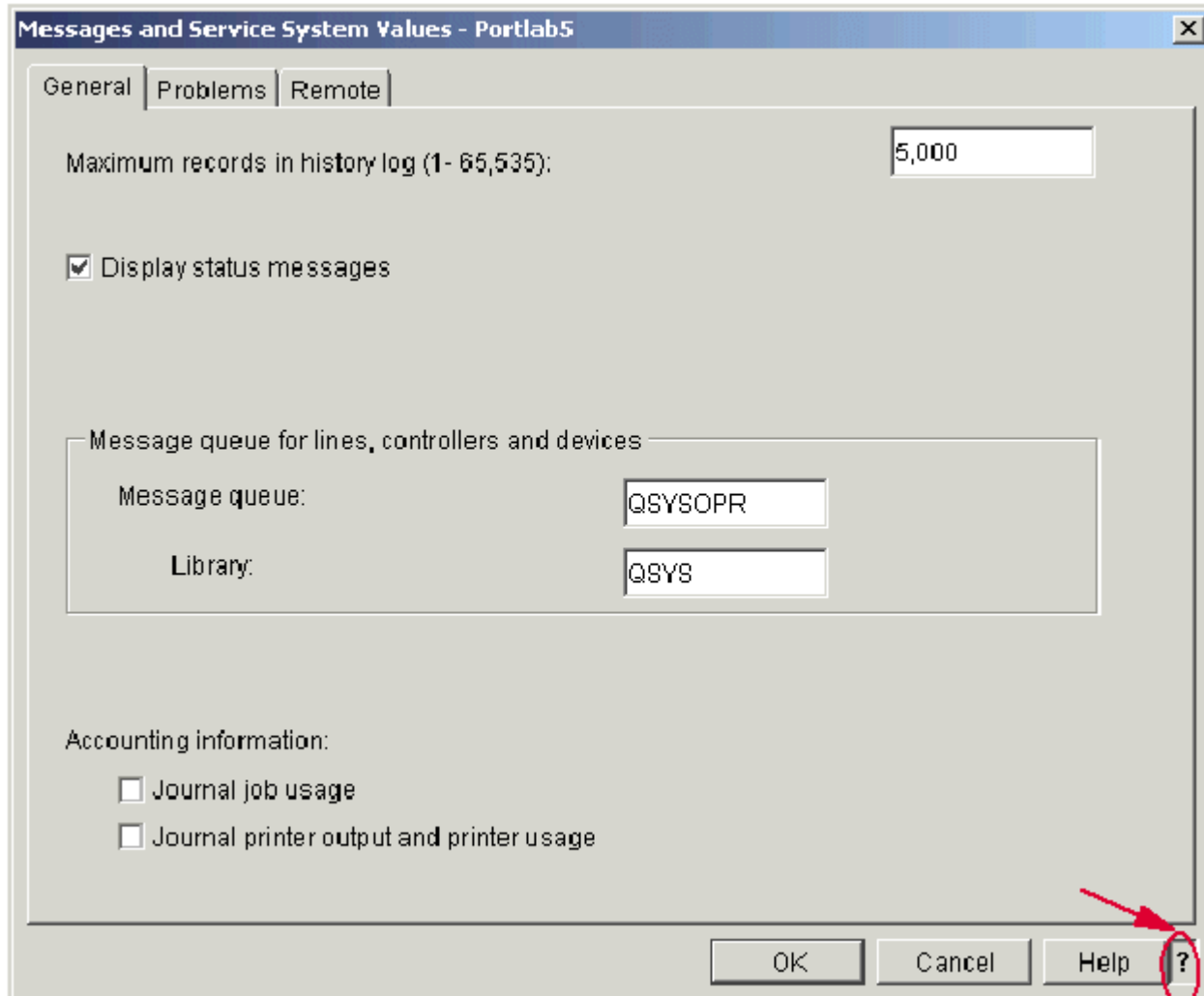
System Values

1. From the left side of the main iSeries Navigator window, under *Primary iSeries* (see your worksheet for the name of this server), expand **Configuration and Service**, then click on **System Values**.



2. All of the iSeries System Values can be found within the various categories in the list on the right. Double click on **Messages and Service** to work with system values related to these functions. Note the values that you can work with from this dialog.

To see the actual Qxxxxx System Value name associated with any of the fields on the dialog, **click** on the “?” in the bottom right corner of the window.



Your cursor will change to have a “?” with it. Now click on any field on the dialog. This will bring up the *System Values* help window and will show you the actual Qxxxx System Value name, the possible values, and other information about the system value.

3. Close the help window. Then, click **Cancel** to close the *Messages and Service System Values* window. (You probably do not want to change any of the system values during this lab exercise.)
4. Browse the other system value categories, if interested, but **DO NOT** make any changes.

This exercise is now complete.

Congratulations!

You have finished the iSeries Access for Windows lab.

Appendix A. Installing iSeries Access for Windows

This section explains how to install iSeries Access for Windows on your PC using iSeries NetServer. This section is for your reference and use if iSeries Access for Windows is not already installed on your PC. If iSeries Access for Windows *is* installed on your PC, you should NOT perform the following steps. Prior to installing iSeries Access for Windows, ensure that necessary licensed programs (5722XE1, 5722XW1) are installed on your iSeries server. (These instructions utilize iSeries NetServer to install iSeries Access for Windows components and subcomponents. This is the recommended installation method. It is also possible to install iSeries Access for Windows from a CD-ROM or from a specified file server.) Ensure that iSeries NetServer is configured and running. For information on configuring and starting NetServer, see the iSeries Information Center article, "Configuring iSeries NetServer on the iSeries server," at: <http://publib.boulder.ibm.com/series/v5r2/ic2924/books/c415507311.htm>. (General information on the iSeries NetServer may be found at the iSeries Netserver Web site at: ibm.com/eserver/series/netserver.) Beyond the instructions below, the iSeries Information Center also contains details on installing iSeries Access for Windows. (See <http://publib.boulder.ibm.com/series/v5r2/ic2924/books/c415507302.htm>; see: <http://publib.boulder.ibm.com/series/v5r2/ic2924/books/c4155073.pdf> for a pdf version.

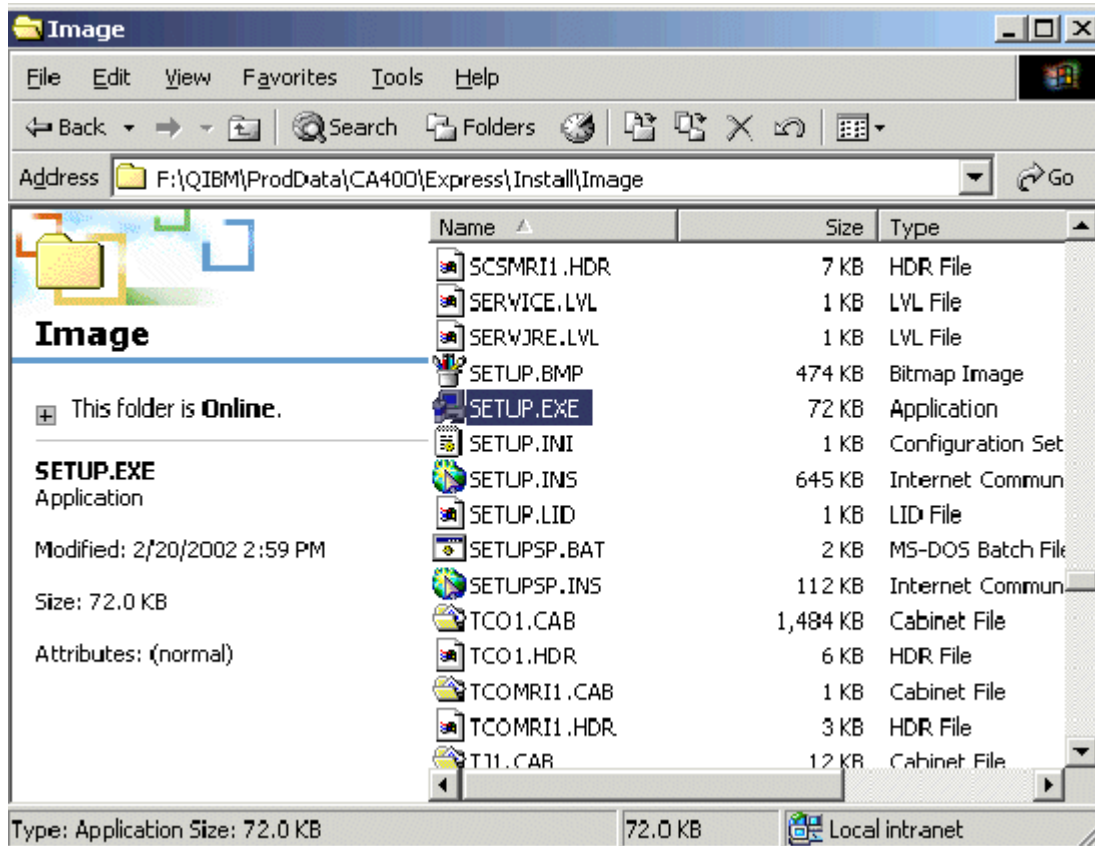
1. On Windows 2000: click **Start** → **Search** → **For Files or Folders...** Under **Search for other items**, click on **Computers**. In the **Computer Name** field, enter the iSeries Netserver name. Click on **Search Now**.

On Windows 98/NT/XP: click **Start** → **Find** → **Computer**, type the iSeries Netserver name of your iSeries server and click the **Find now** button.

Note: The iSeries NetServer name may be obtained through iSeries Navigator as follows: Open a connection to iSeries Navigator on the specified iSeries server. Expand **Network** → **Servers** → **TCP/IP**. Right-click on **iSeries NetServer** and select **Properties**. The **General** tab will list the iSeries NetServer server name. It may or may not be the same as the system name.

2. Double click on the iSeries **NetServer** that was found.
3. Double click on each of the following directories: **QIBM** → **ProdData** → **CA400** → **Express** → **Install** → **Image**.

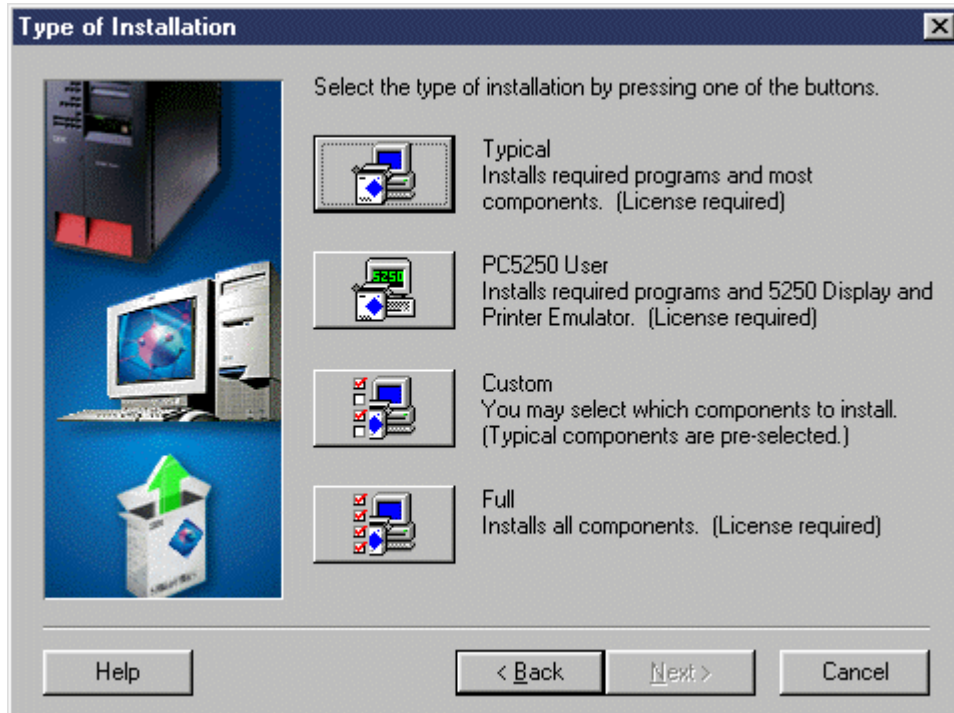
4. Start the installation by double clicking on **SETUP.EXE**.



5. After the installation wizard loads and the welcome screen is displayed, click the **Next** button.
6. Then, the licensing information for the iSeries Access for Windows product is displayed. Click the **Yes** button to continue the install.

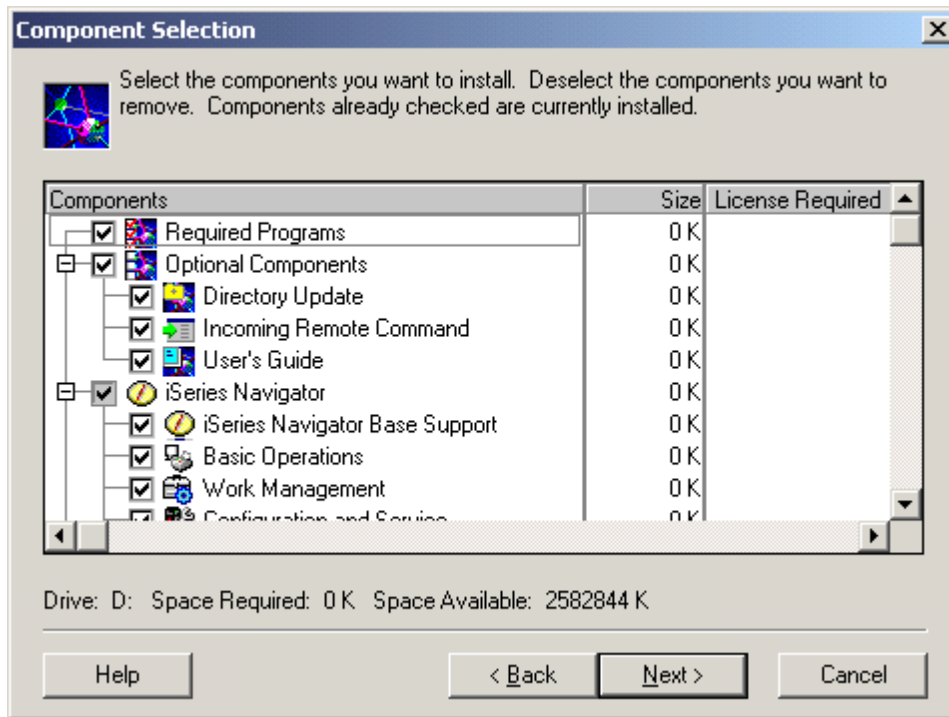
7. Now the type of installation can be selected by clicking on the large button to the left of the install type description.

Note: Selecting a **Typical** install will not install all of the iSeries Access or iSeries Navigator sub-components. To select which pieces are installed, click the **Custom** button.



8. Now you will be prompted for the destination folder to install iSeries Access for Windows in. Accept the default and click the **Next** button to continue.

9. Since we chose a custom install in step 7, the Component Selection window will now be displayed. Here you will need to select the components of iSeries Access for Windows to be installed.



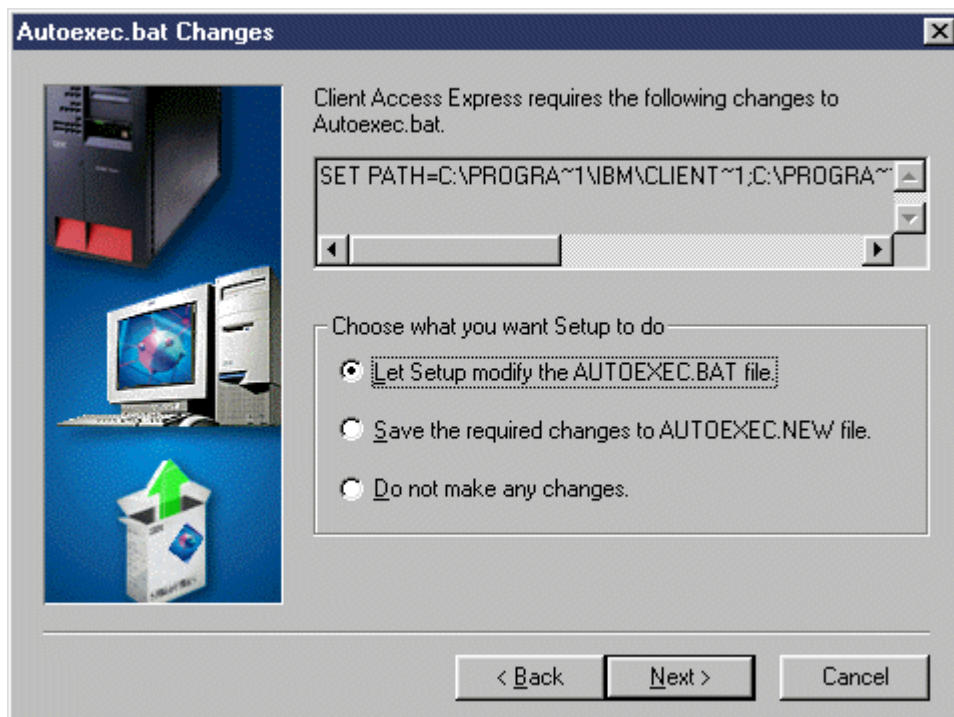
10. To select a component for installation, click on the box to the left of the component to place a check mark in it. To view the subcomponents of a component, click the '+' to the left of the box to expand the view. The following is a list of all required iSeries Access for Windows components and subcomponents required for this lab exercise:

- ◆ Required Programs
- ◆ Optional Components: (recommended, but not required for this lab)
 - ◆ Directory Update
 - ◆ Incoming Remote
 - ◆ User's Guide
- ◆ iSeries Navigator
 - ◆ iSeries Navigator Base Support
 - ◆ Basic Operations
 - ◆ Work Management
 - ◆ Configuration Services
 - ◆ Network
 - ◆ Security
 - ◆ Users and Groups
 - ◆ Database
 - ◆ File System
 - ◆ Backup (recommended, but not required for this lab)
 - ◆ Application Development (recommended, but not required for this lab)
 - ◆ Commands
 - ◆ Packages and Products (recommended, but not required for this lab)
 - ◆ Monitors (recommended, but not required for this lab)
 - ◆ AFP Manager
 - ◆ Application Administration (recommended, but not required for this lab)

- ◆ Performance Tools (recommended, but not required for this lab)
- ◆ AFP Workbench Viewer
- ◆ IBM Toolbox for Java

Once you have selected all the components to be installed, click the **Next** button to continue.

11. If you are installing iSeries Access for Windows on a Windows 98/XP PC and select to install PC5250 Emulation, the AUTOEXEC.BAT Changes dialog is displayed next. Since the PC5250 Emulator was selected to be installed, the Install Shield wants to add iSeries Access path statements. This screen is displayed to inform you that changes will be made to your **AUTOEXEC.BAT** file. Click the **Next** button to continue the installation and allow the **AUTOEXEC.BAT** file to be changed. If you are installing on Windows NT 4.0 or Windows 2000, the path will be updated automatically.



12. You will now be asked for the name of the Program Menu shortcut. Leave the default of **IBM iSeries Access** and click the **Next** button to continue.
13. Now, you will be shown a synopsis of the installation options that you have selected up to this point. Click the **Next** button to begin copying the files to your PC.
14. After all files have been successfully copied to your PC, you will be prompted with the options to Add program folder shortcut to the desktop and view the **README** file. Leave both options checked and click the **Next** button to continue.
15. Browse through the **README** file, and then close it.
16. Now you will be told that the setup is complete. Click the **Finish** button to complete the install.

Note: Normally, you must reboot the PC before using iSeries Access. However, after a brand new install on a PC, you can first install a Service Pack (if one is available) before rebooting the PC.

17. iSeries Access for Windows incorporates all code fixes into a service pack. The most recent service pack contains all the fixes from the prior service packs in addition to new fixes that are contained in

Basic iSeries Access and iSeries Navigator Lab

the current service pack. Service packs are available in a PC-executable form. Verify and install necessary the necessary service pack from the iSeries Access Service Packs Web site at:ibm.com/eserver/series/access/casp.htm

Appendix B — Trademarks and Disclaimers

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Appendix C — About the Author

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Charlie Quigg serves as a technical consultant to assist software vendors who are interested in deploying solutions on the eServer iSeries system. Most of his experience is with solutions sourced from UNIX and Windows. He also has experience with solutions sourced from IBM mainframes and legacy proprietary systems (e.g. DEC VAX, HP3000 and Unisys). Prior to his current assignment, Charlie was a programmer in the OS/400 lab. Specifically, he worked on implementations of UNIX-like APIs. Charlie began his career with IBM in 1981 as a technical writer. He holds two Bachelor of Science degrees, one from Winona State University in Computer Science and one from the University of Wisconsin-Stout in Technical Communications. Send e-mail to quigg@us.ibm.com.