



IBM eServer™ iSeries™

WebSphere Application Server - Express for iSeries

Install & Initial Configuration

**WebSphere Sales Support Center
for iSeries**

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Welcome!

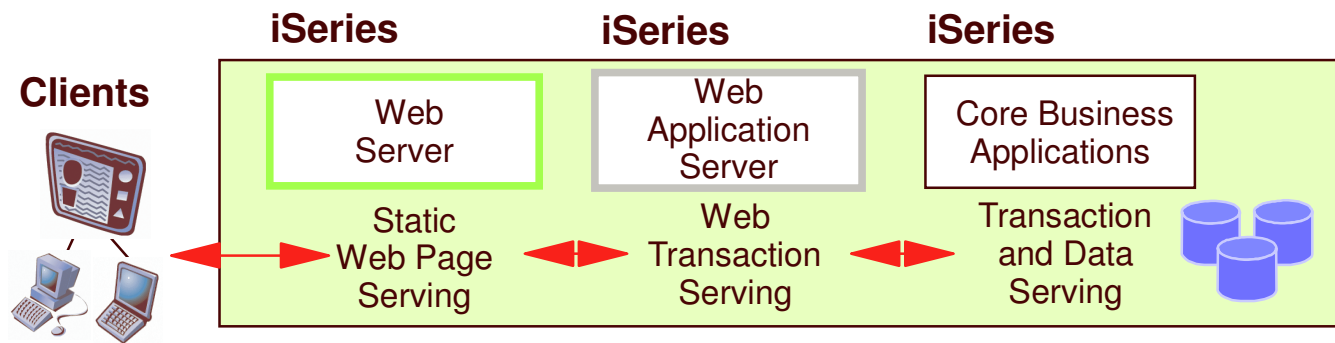
This education package will teach you how to install WebSphere Application Server - Express for iSeries and the IBM Telephone Directory onto the your IBM eServer iSeries systems (or within a logical partition) running OS/400 V5R2M0.

- 1. Overview**
- 2. Installation Checklist**
- 3. Troubleshooting**

What is WebSphere Application Server?

WebSphere Application Server allows you to implement and manage server-side Java™ components, such as Java™ Servlets, Enterprise Java™Beans (EJBs), and Java™Server Pages (JSPs). These components can add **complex business logic** and **dynamic functions** to static HTML Web pages.

Simply stated, WebSphere Application Server "serves" Java™ applications. WebSphere Application Server works in **conjunction** with your HTTP server to provide dynamic function in a Web site. This function can be combined with back-end data and applications on your iSeries to extend the value of your existing investments.




*Note: This service only provides for installation and configuration of WebSphere Application Server v5 - Express for iSeries with the IBM HTTP Server (powered by Apache) at release V5R2M0, and the IBM Telephone Directory on a single iSeries system or within a single iSeries logical partition.

WebSphere Application Server for iSeries

- ✓ **WebSphere Application Server - Express for iSeries** offers an easy to setup, cost-effective, out-of-the-box solution for managing simple yet dynamic Web sites with a simplified Web application server. It also includes several customizations tailored specifically for iSeries.
- ✓ **WebSphere Application Server v5 for iSeries** is a premier Java™ 2 Enterprise Edition (J2EE) and Web services technology-based application platform, offering one of the first production-ready application servers for the deployment of enterprise Web services solutions for dynamic e-business. It supports the J2EE v1.3 technologies including Enterprise Java™ Beans (EJBs) and Java™ Message Service (JMS).
- ✓ **WebSphere Application Server Network Deployment, v5 for iSeries** builds upon WebSphere Application Server v5 for iSeries by providing advanced clustering capabilities and Web services features.

Getting Started



The first step in planning for the installation of WebSphere Application Server - Express for iSeries is to completely read and understand the Installation documentation within the iSeries Information Center.

<http://publib.boulder.ibm.com/html/as400/infocenter.html>

Step 1: Plan the Installation

**Step 2: Install WebSphere Application Server -
Express**

Step 3: Create an Initial Configuration


Step 4: Verify the Installation

Installation Checklist

Step	Task	Estimated Completion Time*
Plan the Installation	Read install documentation and current release notes	1-2 Hours
	Obtain required software and PTFs	Up to 2 Week
Install WebSphere Application Server - Express	Install Cumulative PTF Package and prerequisite software	1-2 Hours
	Install WebSphere Application Server - Express for iSeries	45-120 Minutes
	Install Group PTF and IPL	Up to 2 Hours
Create an Initial Configuration	Create an Express and HTTP server instance	30 minutes
Verify the Installation	Invoke WebSphere sample application	10 minutes

*Times given are estimates only. Individual times may vary and will be influenced by the size of the iSeries system and the install mode used.

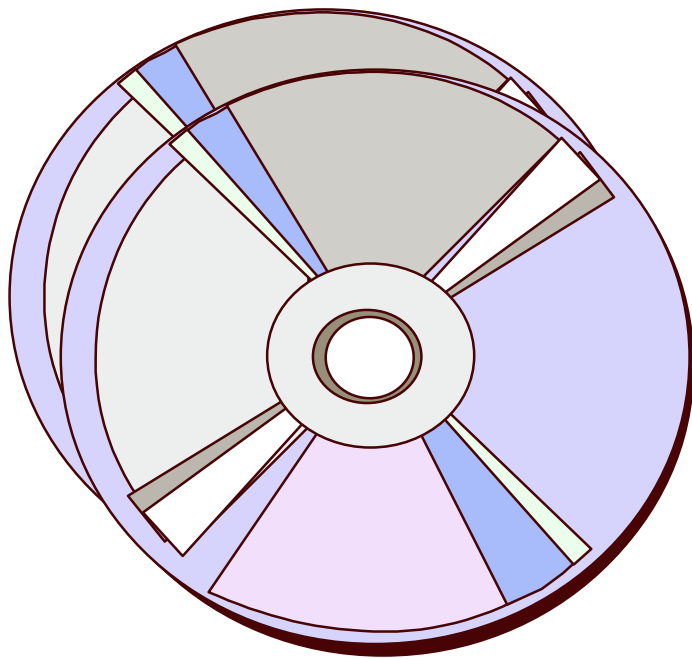
** The Planning Step (Step #1) is performed remotely with the customer to inform the customer of the process, ensure all installation media is available, and ensure availability of the target iSeries system.

Step 1. Plan the Installation

Certain iSeries systems may come preloaded with prerequisite software, WebSphere Application Server - Express for iSeries, the required OS/400 Cumulative PTF Package, and a level of the WebSphere Application Server - Express for iSeries Group PTF. Some configuration will also be performed on these preloaded systems. In either case, it is recommended that the Planning step be completed to ensure that the latest PTF levels get installed on the target iSeries system.

WebSphere Application Server - Express for iSeries

WebSphere Application Server - Express for iSeries (5722-IWE)



Note: The installation of WebSphere Application Server - Express for iSeries involves multiple CD-ROMs. The operator will be required to change CD-ROMs during the installation.

- ✓ Option *BASE | WebSphere Application Server - Express for iSeries Apache plugin
- ✓ Option 2 | WebSphere Application Server - Express for iSeries run time
- ✓ Option 3 | IBM Telephone Directory

Note: Some iSeries systems will have these products already installed. Use OS/400 command QSYS/GO MENU(LICPGM), option #10 to determine if these products are already installed.

Recommended Minimum Configuration*



Processor CPW	Memory (Per Instance)
300	512 MB

*For running the application server only. Values define available resources and existing system workloads should be understood. Smaller configurations may be used, but performance degradation should be expected. Applications may add additional configuration requirements. Use the IBM Workload Estimator Tool to develop a custom configuration estimate based on application design aspects. (<http://www-912.ibm.com/supporthome.nsf/document/16533356>)

Prerequisite Software*

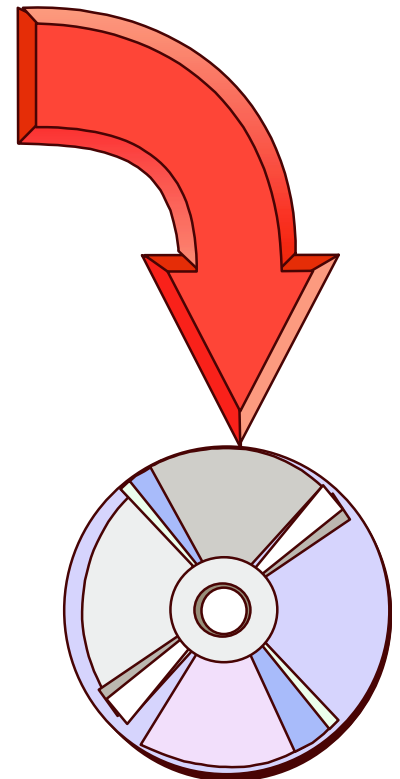
- OS/400 Version 5 Release 1, or Version 5 Release 2
 - System must be in an unrestricted state.
 - User profile with *SECADM, *ALLOBJ, and *IOSYSCFG special authority is needed to install.
- IBM Developer Kit for Java™ (5722-JV1), Version 1.3 (option 5)
- OS/400 Qshell Interpreter (5722-SS1, option 30)
- IBM HTTP Server (powered by Apache) (5722-DG1)
- IBM TCP/IP Connectivity Utilities for iSeries (5722-TC1)
- iSeries Access for Windows (5722-XE1)
- IBM Toolbox for Java (5722-JC1)

***Verify installation with GO LICPGM command, option #10**

CUM Package Requirements

	OS/400 V5R2M0
IBM WebSphere Application Server - Express for iSeries	C2344520

Order the media!



This level of Cumulative PTF Package were tested with IBM WebSphere Application Server v5 for iSeries. You may be able to successfully run with an earlier or later cumulative PTF package, however, IBM recommends that its customers maintain currency with the very latest Cumulative PTF package.



The CUM Package and other PTF packages will be installed as part of the IBM WebSphere Application Server - Express for iSeries install and initial configuration, and may require a system Initial Program Load (IPL). This requirement should be planned for appropriately.

CUM Package Requirements

To determine the Cumulative (CUM) Package level that is currently installed on the target iSeries system:

1. Signon to the system, and from OS/400 command entry, enter the following command:

QSYS/DSPPTF

2. In the Display PTF Status screen, locate the first PTF with a **Temporarily applied** status.
3. Compare this PTF ID with the required CUM PTF package ID.

- a. Cumulative PTF packages are labeled according to the year, Julian date, and OS/400 software version of the package. For example, for CUM Package level **C2134510** identifies year (200)2, Julian date 134, and OS/400 release V5R1M0.

- b. Compare the last 4 digits of the PTF ID with the year and Julian date of the required Cumulative PTF package to for equivalency to determine if the required CUM package is installed.

Display PTF Status				System:
Product ID				MYSYS
IPL source				TE
Release of base option				00
Type options, press Enter.				
5=Display PTF details 6=Print cover letter 8=Display cover letter				
Opt	PTF ID	Status	IPL Action	
→	TL03021	Temporarily applied	None	
				More..
F3=Exit F11=Display alternate view F17=Position to F12=Cancel				

Step 1. Plan the Installation

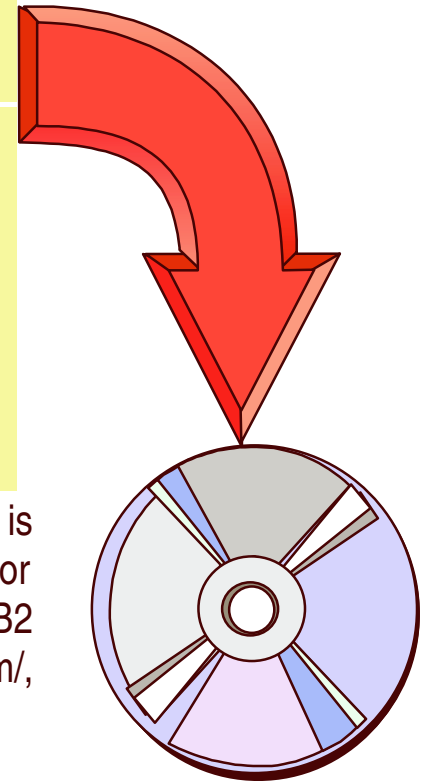
Group PTF

**IBM WebSphere Application
Server - Express for iSeries**

OS/400 V5R2M0

SF99271

Order the media!



The contents of this Group PTF are refreshed periodically to new levels, therefore it is important to maintain currency with the latest levels. To determine the latest level available for the products above and supporting products (IBM Developers Kit for Java™, IBM DB2 Universal Database, and IBM HTTP Server), select the **Fixes** link at <http://www-912.ibm.com/>, then select the **Group PTFs** link.

Each Group PTF level has associated Release Notes documentation available at URL <http://www.ibm.com/eserver/series/software/websphere/wsappserver/express/docs/relnotesexp50.html>. Read and understand these Release Notes before proceeding with the installation.

Step 1. Plan the Installation

Group PTF


To determine the current level of IBM WebSphere Application Server - Express for iSeries Group PTF currently installed on the target iSeries system:

1. Signon to the target iSeries system, and from OS/400 command entry, enter the following command:

QSYS/GO MENU(PTF)

2. Select menu option #12 (Work with PTF Groups).
3. Press Enter to work with all groups.
4. Locate the row with PTF Group SF99271, and note the value in the Level column. Compare this value with the level currently available from IBM to determine if the WebSphere Group PTF should be reordered.

Work with PTF Groups				System: MYSYSTEM
Type options, press Enter.				
4=Delete 5=Display 6=Print 9=Display related PTF groups				
Opt	PTF Group	Level	Status	
	SF99502	4	Installed	
	SF99271	6	Installed	
	SF99245	1	Installed	
	SF99169	4	Installed	
	SF99149	3	Installed	
	SF99148	3	Installed	
	SF99098	7	Installed	
F3=Exit F6=Print F11=Display descriptions F12=Cancel F22=Display entire field				Bottom

Step 2. Install IBM WebSphere Application Server - Express

If the target iSeries system has been preloaded with IBM WebSphere Application Server - Express for iSeries and the very latest PTF levels, proceed to Step #3 to complete the preload process. Otherwise, continue with Step #2.

Step 2. Install IBM WebSphere Application Server - Express

Install Prerequisite Software

At this time, install the prerequisite software before installing WebSphere Application Server - Express for iSeries. (Installing any of the prerequisites after the IBM WebSphere Application Server - Express for iSeries Group PTF will downlevel the version of these prerequisites on the target iSeries system).



*iSeries systems preloaded with IBM WebSphere Application Server - Express for iSeries need not complete this task!

Step 2. Install IBM WebSphere Application Server - Express

Install Express

To install the IBM WebSphere Application Server - Express for iSeries and the IBM Telephone Directory, follow these steps (cont.):

1. Insert the CD-ROM containing IBM WebSphere Application Server - Express for iSeries product (5722-IWE) into the iSeries CD-ROM drive and enter the following command to install the base product:

RSTLICPGM LICPGM(5722IWE) DEV(OPT01)

2. Install option 2 from the same CD-ROM:

RSTLICPGM LICPGM(5722IWE) DEV(OPT01) OPTION(2)

3. Insert the CD-ROM containing IBM Telephone Directory into the iSeries CD-ROM drive and enter the following command:

RSTLICPGM LICPGM(5722IWE) DEV(OPT01) OPTION(3)



*iSeries systems preloaded with IBM WebSphere Application Server - Express for iSeries need not complete this task!

Step 2. Install IBM WebSphere Application Server - Express

Install CUM Package

Install the recommended OS/400 Cumulative PTF Package at this time. However, since other PTFs will be applied later in the process, elect **not** to have the system automatically IPL when the PTF installation process is complete.



*iSeries systems preloaded with IBM WebSphere Application Server - Express for iSeries need only complete this task if currency with the latest OS/400 Cumulative PTF package is necessary.

*Step 2. Install IBM WebSphere Application Server - Express***Install Group PTF**

The IBM WebSphere Application Server - Express for iSeries Group PTF should be installed at this time. Make sure that you have read the corresponding Release Notes as outlined in Step #1. Use OS/400 command QSYS/GO MENU(PTF) and use option #8 to install the Group PTF.



*iSeries systems preloaded with IBM WebSphere Application Server - Express for iSeries need only complete this task if currency with the latest WebSphere Application Server - Express for iSeries Group PTF is necessary.

Configure Software License Information

The usage limit from the Proof of Entitlement (POE) or invoice must be set before starting the IBM WebSphere Application Server

- Express for iSeries environment:

1. Use the **Work with License Information** (WRKLICINF) command and press enter.
2. Press F11 to **Display Usage Information**.
3. Move the cursor to the line that contains the product 5722IWE, Feature 5102.
4. Select option 2 (Change) and press Enter. On the **Change License Information** screen, press F9 to display all parameters. Update the **Threshold** keyword (THRESHOLD) with the ***USGLMT** value. Do not leave the threshold set to zero! **Do not press Enter!**

***If message CPA9E1B - "Usage limit increase must be authorized" is sent, press HELP to read the full message text, and then reply by typing G.**

Configure Software License Information

The usage limit from the Proof of Entitlement (POE) or invoice must be set before starting the IBM WebSphere Application Server - Express for iSeries environment (cont.):

5. On the same screen, update the **Usage limit** keyword (**USGLMT**) with the usage limit shown on the POE or invoice (entering a larger number violates the IBM purchase agreement). Press Enter.
 - ✓ *For a POE with a part number of CP0HCNA, enter the number specified on the POE for Quantity. For example, if the POE Quantity value has 1 Processor, enter 1 for the USGLMT.*
 - ✓ *For a POE with a part number of CP0HENA or CP0HDNA, enter the number of processors that your system has (not the quantity shown on the POE). For example, if your system has 2 processors, enter 2 for the USGLMT.*

***If message CPA9E1B - "Usage limit increase must be authorized" is sent, press HELP to read the full message text, and then reply by typing G.**

Step 3. Create an Initial Configuration

Configure Software License Information

```

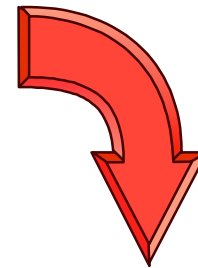
                                WORK WITH LICENSE INFORMATION                                MYSYSTEM
                                02/12/03 11:00:19
SYSTEM SERIAL NUMBER . . . . . : 100D4CM
PROCESSOR GROUP . . . . . : P30

TYPE OPTIONS, PRESS ENTER.
  1=ADD LICENSE KEY   2=CHANGE   5=DISPLAY DETAIL   6=PRINT DETAIL
  8=WORK WITH LICENSE USERS ...

OPT  PRODUCT  TERM  FEATURE  DESCRIPTION
5722SS1 V5R2M0  5117  OS/400 - HA Journal Performance
5722AF1 V5R2M0  5050  IBM AFP Utilities for iSeries
5722IP1 V5R2M0  5050  IBM Infoprint Server for iSeries
→ 2  5722IWE V5    5102  IBM WebSphere Application Server Express V5
5722JS1 V5R2M0  5050  Advanced Job Scheduler for iSeries
5722PT1 V5R2M0  5050  Performance Tools for iSeries - Base
5722PT1 V5R2M0  5101  Performance Tools - Manager Feature

PARAMETERS OR COMMAND
====>
F3=EXIT      F5=REFRESH  F11=DISPLAY USAGE INFORMATION  F
F17=POSITION TO  F23=MORE OPTIONS
  
```

Work with License Information screen



Change License Information screen

```

                                Change License Information (CHGLICINF)
                                Type choices, press Enter.

Product identifier . . . . . > 5722IWE      Identifier
License term . . . . . > V5                Vx, VxRy, VxRyMz, *ONLY
Feature . . . . . > 5050                  5001-9999
Usage limit . . . . . > 0                 0-999999, *SAME, *NOMAX...
Alternate usage limit:
  Identified usage . . . . . 0             0-999999, *SAME
  Unidentified usage . . . . . 0           0-999999, *SAME
Threshold . . . . . > *USGLMT             0-999999, *SAME, *CALC...
Message queue . . . . . *NONE             Name, *SAME, *NONE, *OPSYS
Library . . . . .                               Name, *LIBL, *CURLIB
+ for more values

Log . . . . . *NO                        *SAME, *NO, *YES

                                Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
  
```

Step 3. Create an Initial Configuration

Set SQL Server Jobs

If you are using the IBM Developer Kit for Java™ JDBC driver to access the OS/400 database from your WebSphere applications, you may need to change the maximum number of jobs allowed for the SQL server jobs.

Each JDBC connection object requires an SQL server job. Generally, it is easiest to account for the number of jobs you need by setting the maximum number of jobs to *NOMAX. Use the **Change Prestart Job Entry** (CHGPJE) command to change the prestart job entry for the SQL server jobs:

CHGPJE SBSD(QSYSWRK) PGM(QSQSRVR) MAXJOBS(*NOMAX)

If ***NOMAX** is not an appropriate setting for your iSeries environment, specify an integer value for the **MAXJOBS** parameter, which will allow your applications to have enough SQL server jobs to handle the maximum number of JDBC connections required at any given time by your applications.

Step 3. Create an Initial Configuration

Set OS/400 System Values

Accurate timestamps within log files maintained by IBM WebSphere Application Server - Express for iSeries requires that the following system values be accurately set to reflect the local date and time.

QHOUR	QYEAR
QMINUTE	QMONTH
QSECOND	QDAY
QUTCOFFSET	QLEAPADJ

*Note: Changes to any these values may impact existing applications. Considerations should be made before changing.

Verify and Configure TCP/IP

To configure and run IBM WebSphere Application Server - Express for iSeries, TCP/IP must be configured properly and must be started before you start the IBM WebSphere Application Server - Express for iSeries environment.

Each of the steps on the next several slides are performed from the **Configure TCP/IP** menu, accessible using command **QSYS/GO MENU(CFGTCP)** from OS/400 Command Entry.

Step 3. Create an Initial Configuration

Verify and Configure TCP/IP

1. Verify your TCP/IP address and LOOPBACK interfaces are active
 - a. Select option 1 (**Work with TCP/IP interfaces**). Press F11 to display interface status.
 - b. Verify that your TCP/IP address is active. If it is not active, specify option 9 to start the interface.
 - c. Verify that the LOOPBACK interface with IP address 127.0.0.1 is active. If it is not active, specify option 9 to start the interface. Press F3 to return to the **Configure TCP/IP** menu.
2. Verify your TCP/IP host name
 - a. Select option 12 (**Change TCP/IP domain information**).
 - b. Verify that the TCP/IP host name is correct. If the host name is not correct, type the correct host name in the **Host name** field and press Enter. If the host name is correct, go to the next step (Note: The host name CANNOT be ***NONE**). Press F3 to return to the **Configure TCP/IP** menu.
3. Start TCP/IP
 - a. If TCP/IP is not started, or if you don't know if TCP/IP is started, enter the **Start TCP/IP (STRTCP)** command on the OS/400 command line.

Step 3. Create an Initial Configuration

Verify and Configure TCP/IP

*Work with TCP/IP
Interfaces screen*

Work with TCP/IP Interfaces

System: MYSYSTEM

Type options, press Enter.
1=Add 2=Change 4=Remove 5=Display 9=Start 10=End

Opt	Internet Address	Subnet Mask	Interface Status
	192.168.1.1	255.255.255.128	Active
	127.0.0.1	255.0.0.0	Active

Bottom

F3=Exit F5=Refresh F6=Print list F11=Display line information
F12=Cancel F17=Top F18=Bottom

*Change with TCP/IP
Domain screen*

Change TCP/IP Domain (CHGTCPDMN)

Type choices, press Enter.

Host name MYSYSTEM

Domain name MYCOMPANY.COM

Domain search list *DFT

Host name search priority . . . *LOCAL *REMOTE, *LOCAL, *SAME

Domain name server:
Internet address

Bottom

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

Step 3. Create an Initial Configuration

Verify and Configure TCP/IP

4. Verify IP address and host name association

- a. Press F3 to exit the **Configure TCP/IP** menu.
- b. Enter command **ping *hostname*** on the OS/400 command line where ***hostname*** is that displayed in step #2.
- c. Verify that the ping is successful and the resulting IP address is correct. A successful ping command will attempt 5 connections to the specified host name by default. Each connection should receive a successful reply. If the ping is successful, go to the next step.
- d. If the ping fails, enter the **Configure TCP/IP (GO CFGTCP)** menu again and select option 10 (**Work with TCP/IP Host Table Entries**).
- e. Enter option 2 (Change) on the first line the first field and type your IP address in the associated **Internet Address** field. Press Enter.
- f. In the **Change TCP/IP Host Table Entry (CFGTCPTHTE)** screen, edit the **Hostnames:Name** field to match the short name of your iSeries server. Press Enter, and then F3 to exit the **Work with TCP/IP Host Table Entries** screen. (Note: The ***ADMIN** instance of the HTTP server, used later, will not start without a host name in the iSeries host table).

Step 3. Create an Initial Configuration

Verify and Configure TCP/IP

5. Verify your system configuration

- a. The **IPTest** utility is shipped with the IBM WebSphere Application Server - Express for iSeries product, and can be used to verify and debug TCP/IP configuration problems. To run this utility, enter the following command on the OS/400 command line (pay attention to the alphabetic case):

```
RUNJVA CLASS(IPTest) CLASSPATH('/QIBM/ProdData/WebASE/ASE5/bin')
```

- b. A successful configuration will produce output similar to the following (reverify the previous steps for output that is not similar to the following):

*IPTest utility
output*

```
Java Shell Display

Local Address: 192.168.1.1
Local Name: MYSYSTEM.MYCOMPANY.COM
All addresses for MYSYSTEM.MYCOMPANY.COM:
    192.168.1.1
Java program completed

===>

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

Step 3. Create an Initial Configuration

Verify and Configure TCP/IP

6. Print current IP port usage

- a. IBM WebSphere Application Server for iSeries services use IP ports on the target iSeries system for network communication. These ports must not be allocated by other applications. To display the list of ports currently allocated, enter the following command from OS/400 command entry:

QSYS/WRKTCPSTS OPTION(*CNN)

- b. Press F14 to display ports by number.
- c. Press F13 to sort. From the **Select Column to Sort** window, type a 1 in the **Opt** column next to the **Local Port** column name and press enter.
- d. Press F6 to print the list. When you are asked to provide port numbers to configure IBM WebSphere Application Server - Express for iSeries in later tasks, use this list to determine which port numbers are already allocated.

***Note: This will only show active ports. Applications not executing at this time that use specific ports must also be taken into consideration.**

Work with TCP/IP Connection Status					
Type options, press Enter.					System: MYSYSTEM
3=Enable debug 4=End 5=Display details 6=Disable debug					
8=Display jobs					
Opt	Remote Address	Remote Port	Local Port	Idle Time	State
	127.0.0.1	8473	5234	001:36:39	Established
	*	*	5544	074:38:52	Listen
	*	*	5555	070:54:07	Listen
	192.168.1.1	14342	5555	070:19:13	Established
	127.0.0.1	8473	5835	000:11:48	Established
	127.0.0.1	8473	5882	000:09:05	Established
	127.0.0.1	8473	6148	001:37:12	Established
	127.0.0.1	8473	6174	001:35:13	Established
	*	*	7539	067:29:27	Listen
	127.0.0.1	8473	7847	000:53:50	Established
	127.0.0.1	8473	7880	000:51:02	Established
	*	*	7939	022:46:17	Listen
More...					
F3=Exit F5=Refresh F9=Command line F11=Display byte counts F12=Cancel					
F14=Display port names F15=Subset F17=Position to F24=More keys					

Step 3. Create an Initial Configuration


Verify and Configure TCP/IP

6. Print current IP port usage

- e. iSeries systems that have IBM WebSphere Application Server - Express for iSeries preloaded have an instance created with port 2020 (HTTP Server instance) and ports 2030 through 2041 already allocated. Ensure that these ports are not currently in use on the system.*

iSeries systems that do not have IBM WebSphere Application Server - Express for iSeries preloaded will specify an HTTP Server instance port (default 80), and a range of 12 consecutive port numbers for the application server instance.

***Note: If any of these default ports conflict with active ports, consult the IBM WebSphere Application Server - Express for iSeries documentation within the iSeries InfoCenter for details on how to change each port value!**

Step 3. Create an Initial Configuration

iSeries systems with IBM WebSphere Application Server - Express for iSeries preloaded should continue the configuration process with the instructions in Step #3a. iSeries system that do not have IBM WebSphere Application Server - Express preloaded should proceed to Step #3b.

Step 3a. Complete the Preload Configuration

Configure an Express Instance

To complete the preload process for IBM WebSphere Application Server - Express for iSeries, follow these instructions:

- a. From OS/400 command entry, enter the following command:*

QSYS/CALL PGM(QIWE/QSTRITD)

- b. From OS/400 command entry, enter the following command:

QSYS/STRTCPSVR SERVER(*HTTP) HTTPSVR(ITD)

*This program will start the IBM WebSphere Application Server - Express for iSeries subsystem the preconfigured instance, and the supporting HTTP server instance.

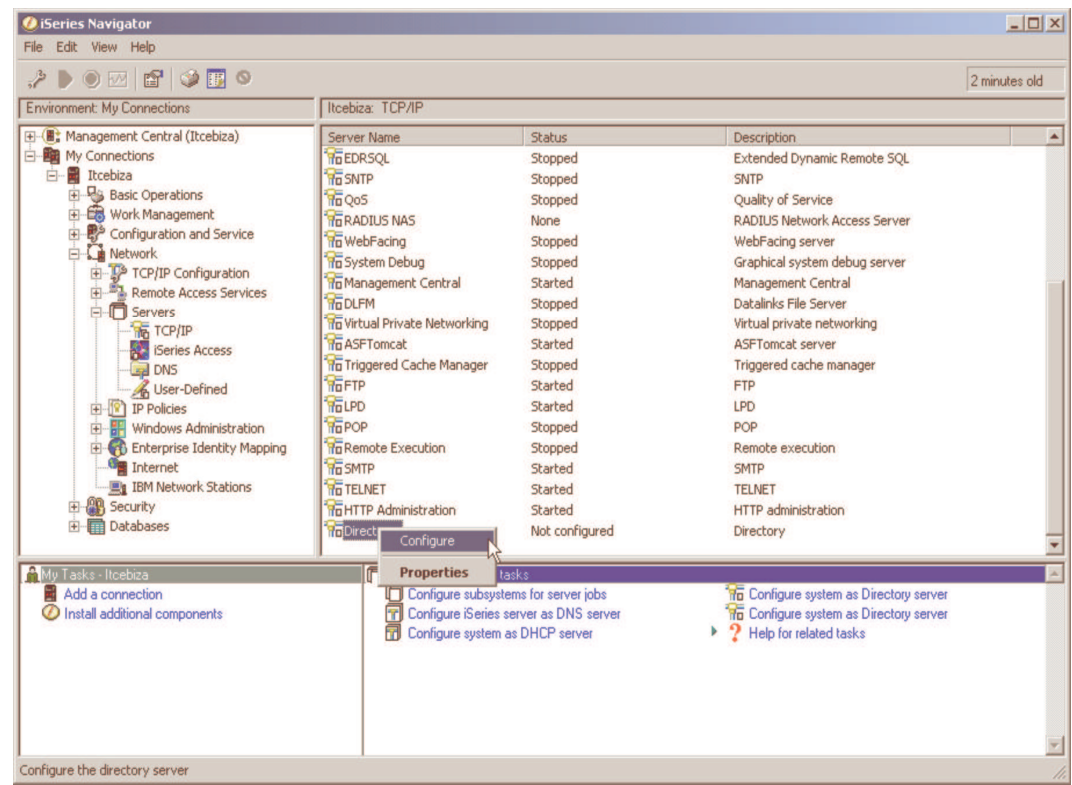
Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server:

1. Start iSeries Navigator.
2. Expand the target iSeries system, authenticate, and then expand **Servers**, and click **TCP/IP**.
3. Right click **Directory**, then click **Configure***.

***Note: If you do not see the menu option to Configure Directory services, then Directory Services has already been configured on the target iSeries system. Proceed directly to Step #3c!**

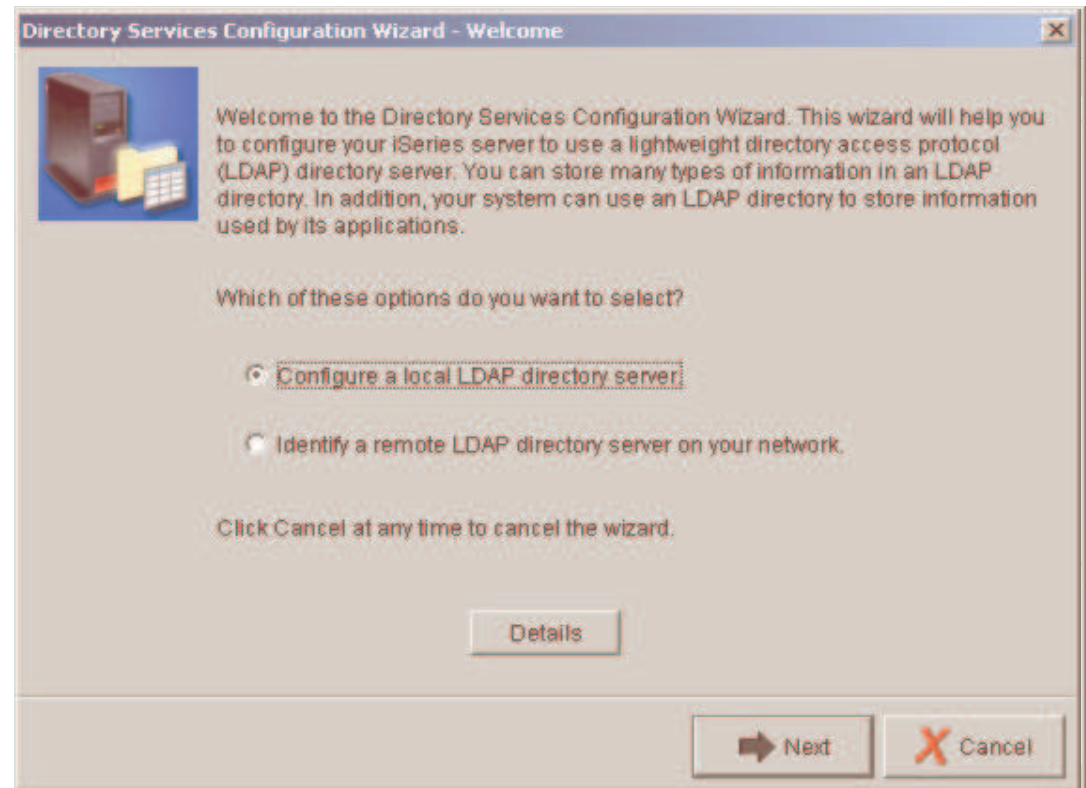


Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

4. Select to configure a local LDAP directory server. Click Next.

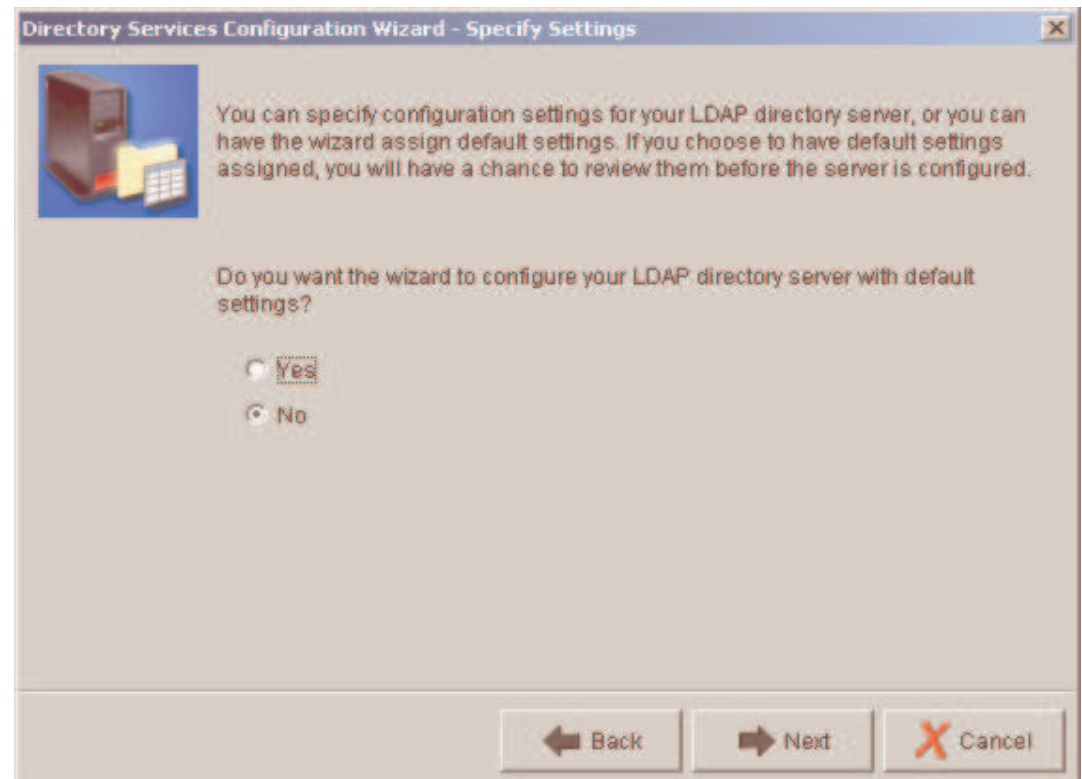


Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

5. Specify not to configure the LDAP server with default settings. Click Next.



Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

- Specify the LDAP administrator password. Remember this password for a later step. Click Next.



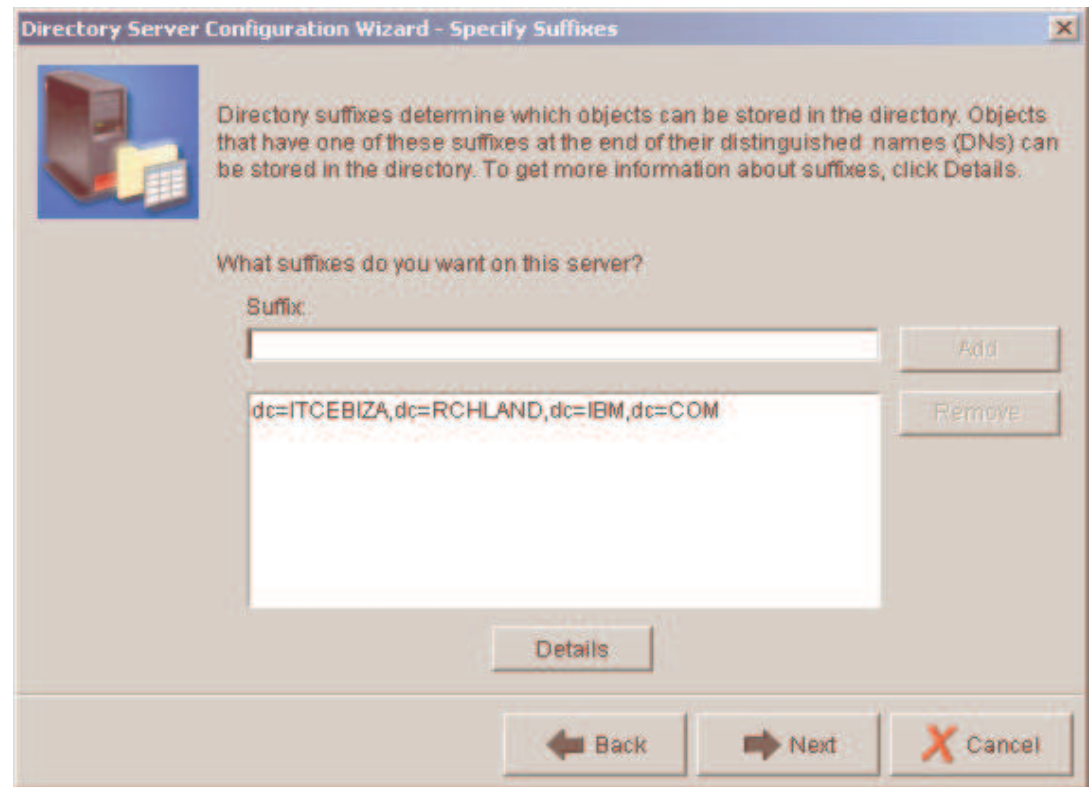
The screenshot shows a window titled "Directory Services Configuration Wizard - Specify Administrator DN". It contains an icon of a server and a folder. The text inside reads: "The directory server administrator has unrestricted access to all directory entries on the server." followed by "What do you want the distinguished name (DN) and password to be for the administrator of this directory?". There is a section titled "Administrator Distinguished Name" with a checkbox labeled "System-generated". Below this, it says "Select this option when you do not need to know the Administrator DN or password because only the system will use the directory." There are three input fields: "Administrator DN:" with the value "cn=admin", "Password:" with masked characters "*****", and "Confirm password:" with masked characters "*****". At the bottom, there are three buttons: "Back", "Next", and "Cancel".

Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

7. Leave the specified server suffix as defined. Click Next.

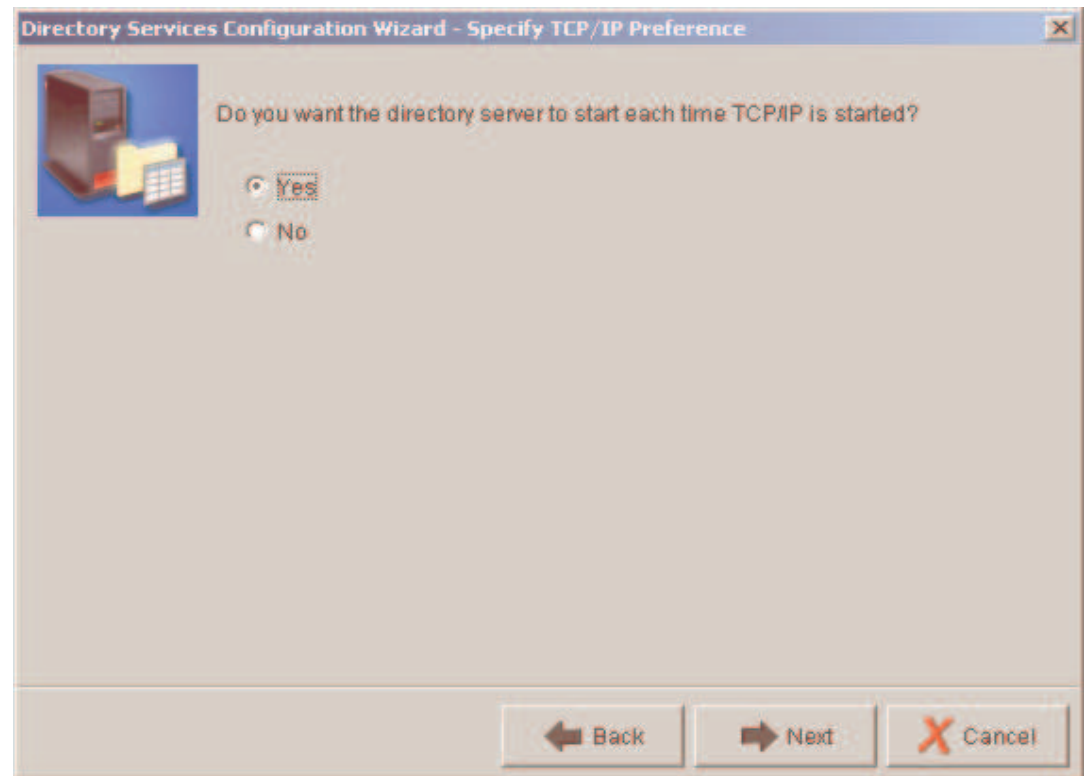


Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

8. Specify to have Directory services started when TCP/IP is started. Click Next.

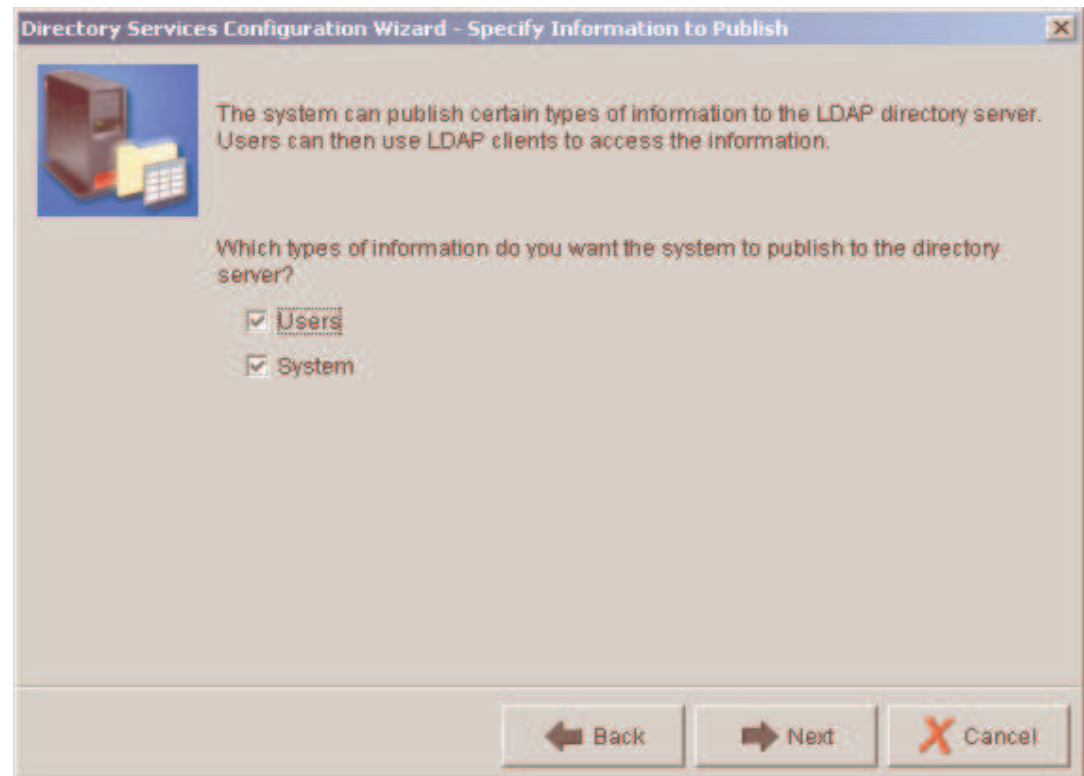


Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

9. If you want to publish the System Distribution Directory entries to the Directory Server, make sure you select Users in the wizard setup when prompted. IBM Telephone Directory defaults to use the same base DN that publishes the users. Click Next.

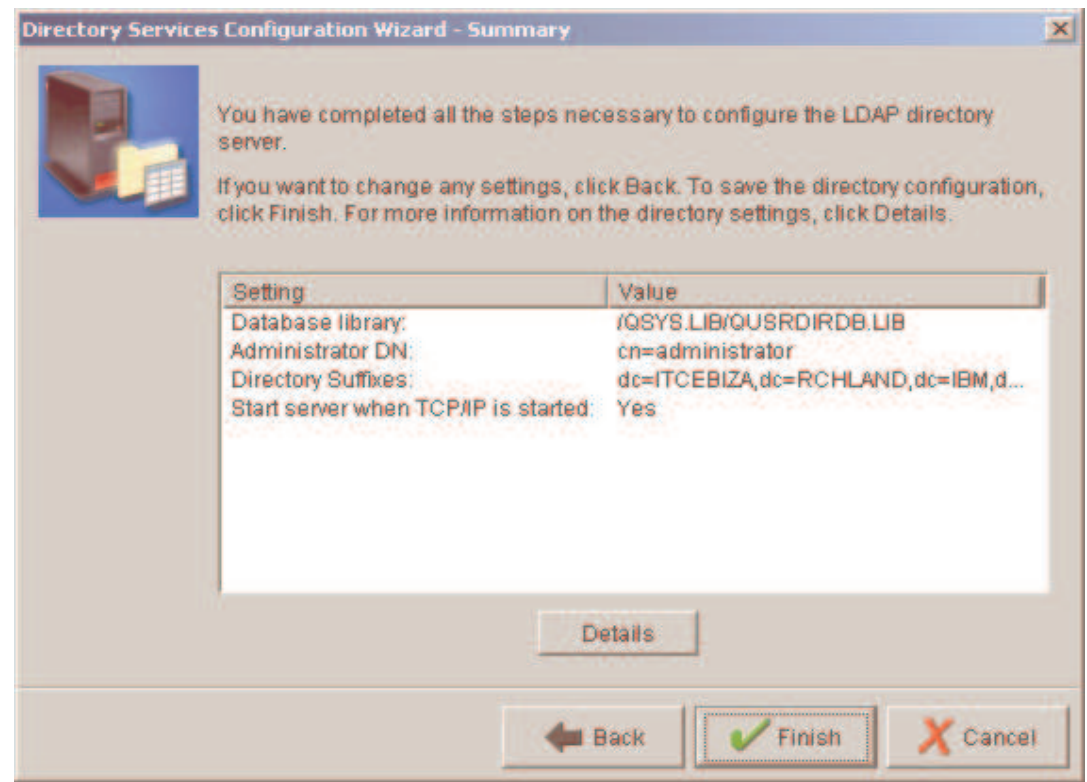


Step 3b. Configure Directory Services

Configure Directory Services

IBM Telephone Directory uses an LDAP directory server included with OS/400 to store and retrieve data. The following instructions detail steps to configure a new LDAP directory server (cont.):

10. Review the installation options and click Finish.

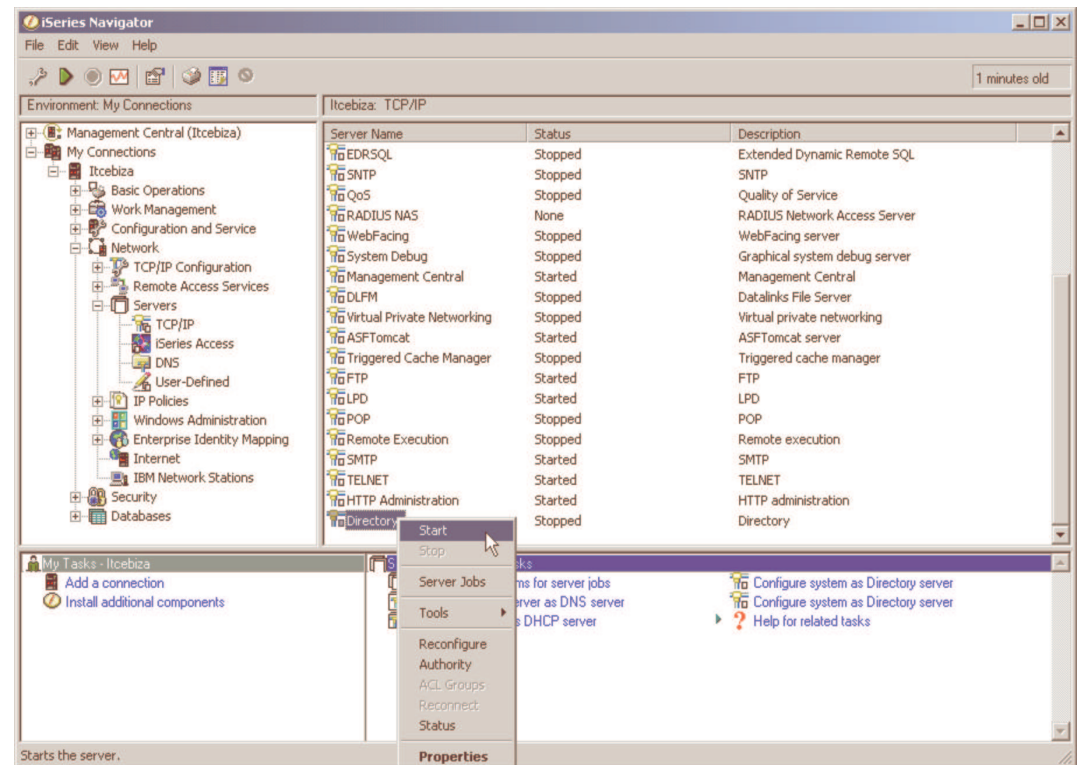


Step 3c. Start Directory Services

Start Directory Services

To complete the setup of LDAP Directory Services, perform the following steps:

1. Within iSeries Navigator, verify that Directory Services is started. If it is not started, right click the Directory server, and click Start.

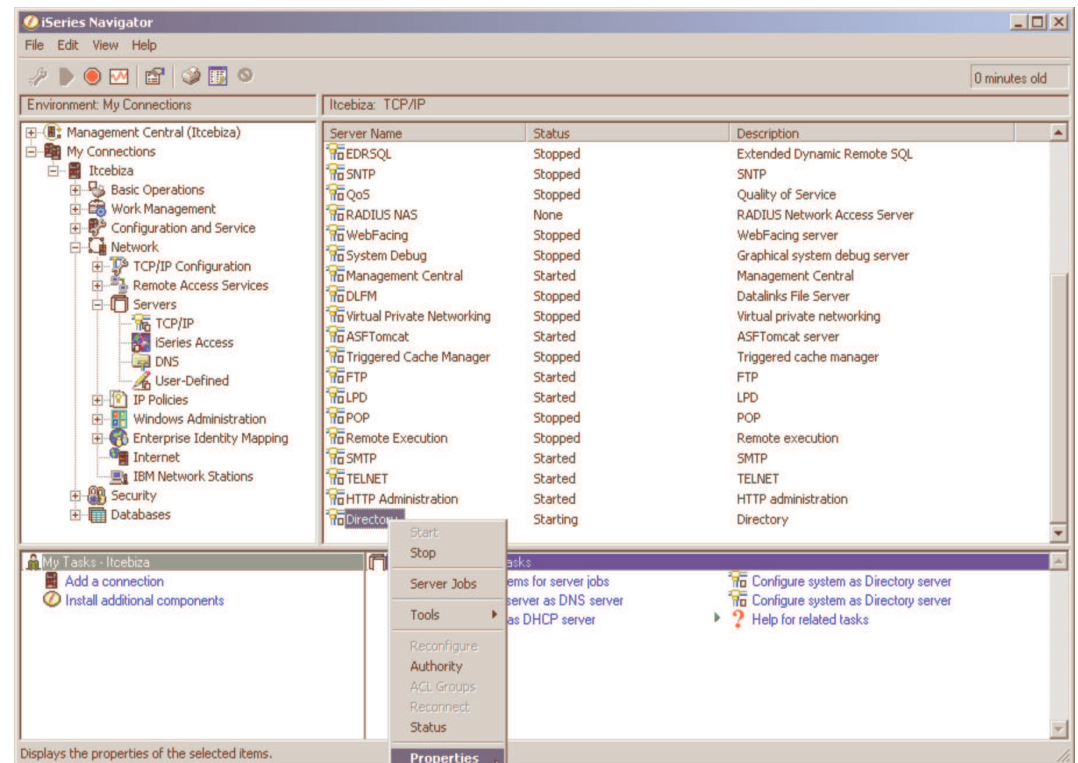


Step 3c. Start Directory Services

Start Directory Services

To complete the setup of LDAP Directory Services, perform the following steps:

2. Within iSeries Navigator, right click the Directory server, and click Properties.

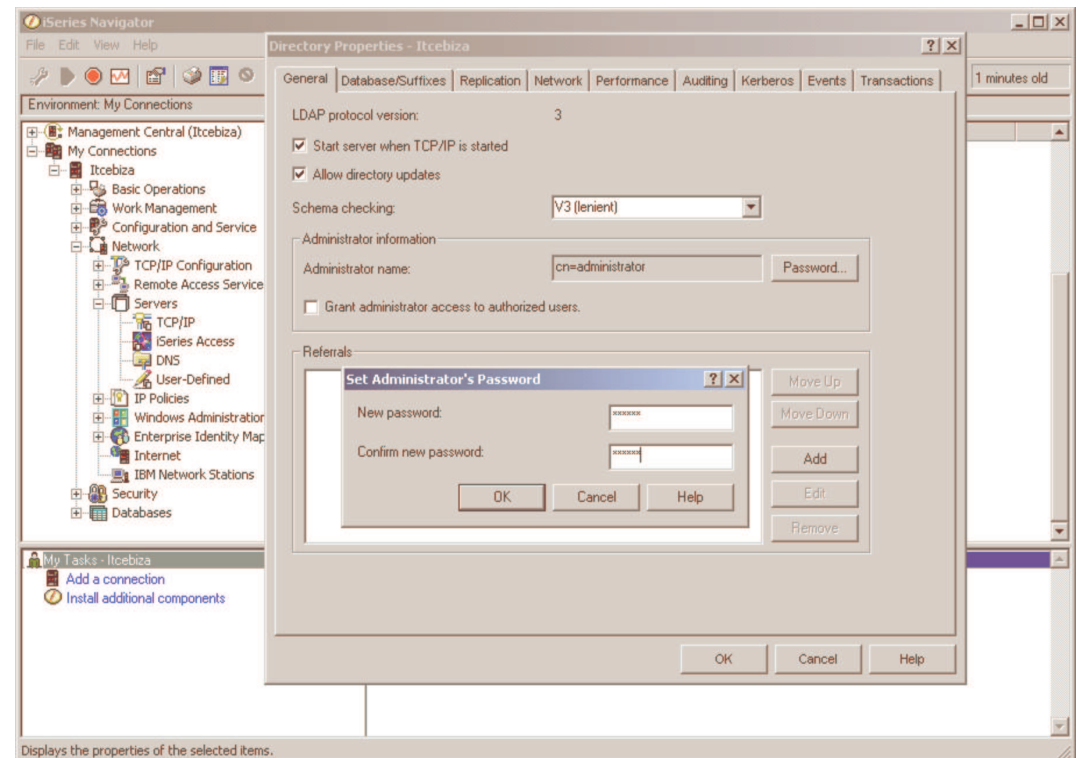


Step 3c. Start Directory Services

Start Directory Services

To complete the setup of LDAP Directory Services, perform the following steps:

3. If you do not know the LDAP administrator password, then click the **General** tab, and then click the **Password** button. Enter a new password twice, and click the OK button. Note that the password is case sensitive, and the user profile changing this password needs *ALLOBJ and *IOSYSCFG special authorities. Note this password as it will be used later.

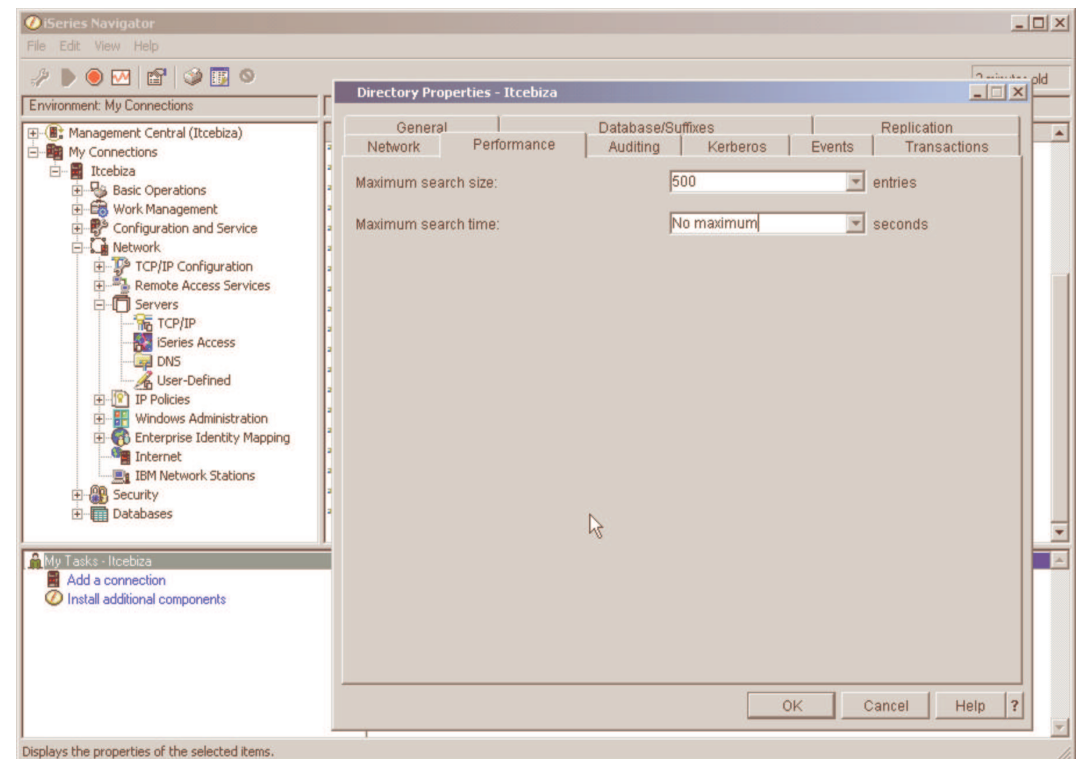


Step 3c. Start Directory Services

Start Directory Services

To complete the setup of LDAP Directory Services, perform the following steps:

4. Click the **Performance** tab.
5. Verify that the **Maximum search size** field is set to the value **No maximum** or a value greater than 1000.

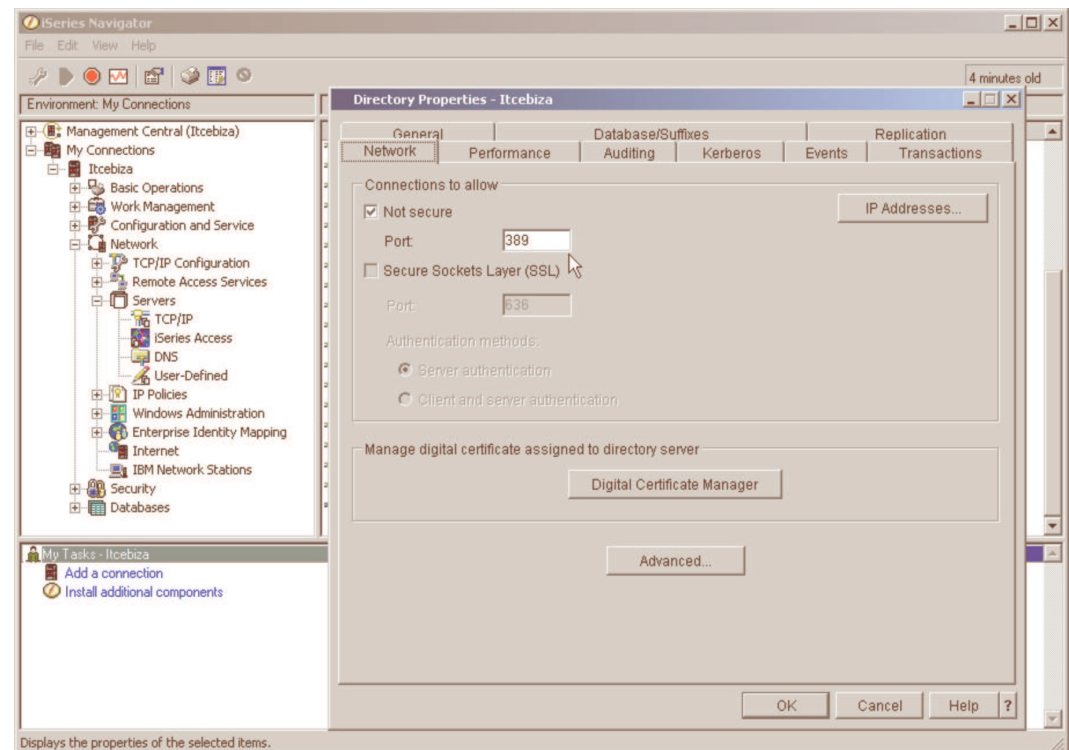


Step 3c. Start Directory Services

Start Directory Services

To complete the setup of LDAP Directory Services, perform the following steps:

6. Click the **Network** tab.
7. Note the port number that the Directory server will use.
8. Click OK.
9. Specify to restart the server now when prompted.



Start Directory Services

IBM Telephone Directory has a default of closed enrollment. Closed enrollment allows the IBM Telephone Directory administrator (iweAdministrator) to register and delete entries in the IBM Telephone Directory base DN. The password for iweAdministrator authentication is specified through a configuration script we will run shortly. Users can update their own entry by authenticating using their associated user name and the password.

Open enrollment allows you to register and delete yourself from the IBM Telephone Directory application, but it does not allow you to update other entries besides the ones you have specific authority to. When open enrollment is enabled, you are not prompted for authentication information when you register yourself. If you attempt to update or delete an entry, you are then prompted and must specify a user name and password. Alternatively, the IBM Telephone Directory administrator update or delete your entry.

Start Directory Services

To complete the setup of LDAP Directory Services, perform the following steps:

10. From OS/400 command entry, type the **Start QSH (STRQSH)** command and press enter.
11. At the Qshell command prompt, enter the following command, where ***ldappwd*** is your LDAP server administration password, and ***iwepwd*** is a password you select for The IBM Telephone Directory administrator (***iweAdministrator***) password. (Note that these passwords are case sensitive, so specify the correct case for the LDAP server administrators password, and note the case of THE IBM Telephone Directory administrators password you create here). When this command is run, a user named ***iweAdministrator*** is created in the base DN with the specified password. This user has authority to manage all IBM Telephone Directory data in the base DN*.

itdsetup -w ldappwd -a iwepwd -u

***Note: If IBM WebSphere Application Server - Express for iSeries is preloaded on the target iSeries system, you only then need to run this command if you wish to change IBM Telephone Directory from closed to open enrollment. To do this, add the -o parameter to the command.**

In addition, if you wish to have IBM Telephone Directory access existing data in your LDAP server, add the -b parameter to the command.

Enterprise Edition



iSeries systems with IBM WebSphere Application Server - Express for iSeries preloaded should proceed directly to step #4. iSeries system that do not have IBM WebSphere Application Server - Express preloaded should continue with Step #3d.

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

You will next create an IBM WebSphere Application Server - Express for iSeries instance. This is done through an easy-to-use wizard interface presented through a web browser.

During the execution of this wizard, you will also be specifying configuration information to have an IBM HTTP Server (powered by Apache) V5R2M0 instance that will integrate with your WebSphere Application Server - Express for iSeries instance.

*Step 3d. Create an IBM WebSphere Application Server -
Express for iSeries instance*

Start the Server Subsystem

The application server processes are initiated by starting the supporting subsystem. From OS/400 command entry, enter the following command:

IBM WebSphere Application Server - Express for iSeries	QSYS/STRSBS SBSD(QASE5/QASE5)
---	----------------------------------

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- a. From OS/400 Command Entry, enter the following command:
**QSYS/STRTCPSVR SERVER(*HTTP)
HTTPSVR(*ADMIN)**
- b. From Web browser, navigate to the following URL:
<http://iseries-server-name:2001/>
where **iSeries-server-name** is the TCP/IP host name of your iSeries server.
- c. When prompted, authenticate using the OS/400 user profile used during the installation of WebSphere Application Server. You will be presented with the **Tasks** page.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- d. At the iSeries Tasks page, select **IBM HTTP Server for iSeries**.
- e. The **IBM HTTP Server for iSeries** page is displayed. To create a new HTTP server instance, click the **Setup** tab.
- f. Expand **Tasks and Wizards**, and click **Create New Express Server**.

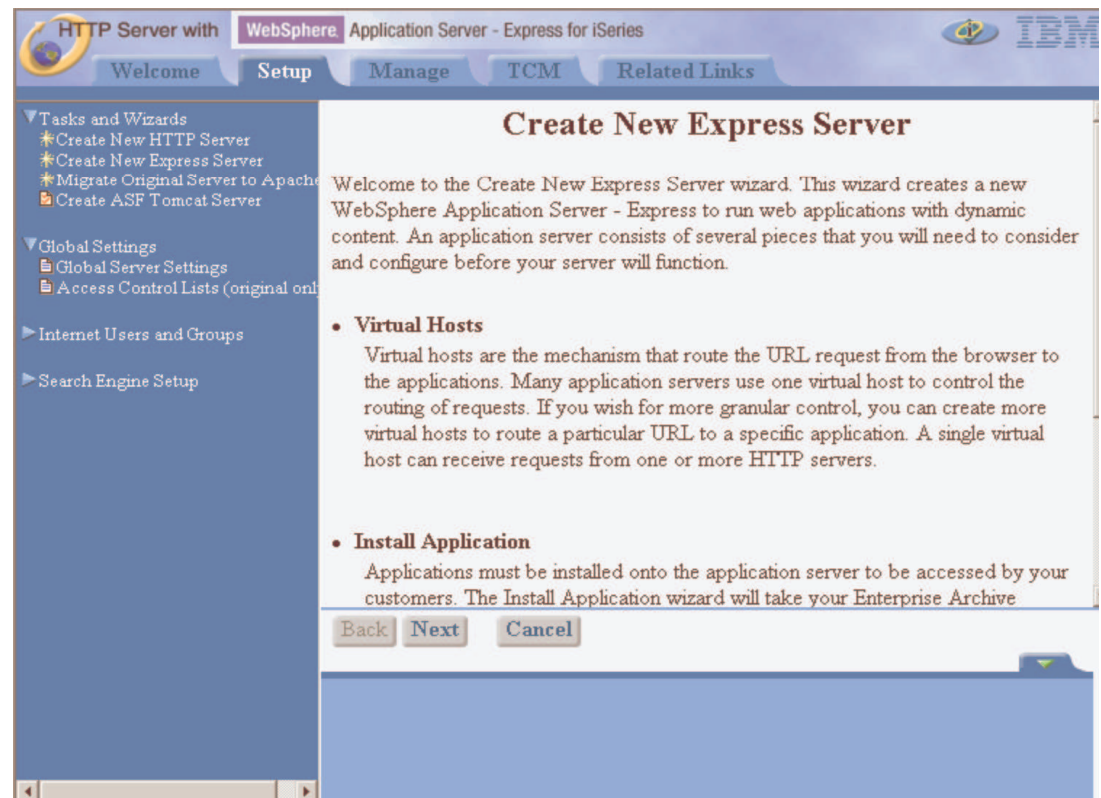


Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- g. Read the introductory information and click Next.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- h. At the **Specify Application Server - Express Name** page, enter a meaningful name for the instance. Do not imbed blanks or a forward slash (/). Click Next.

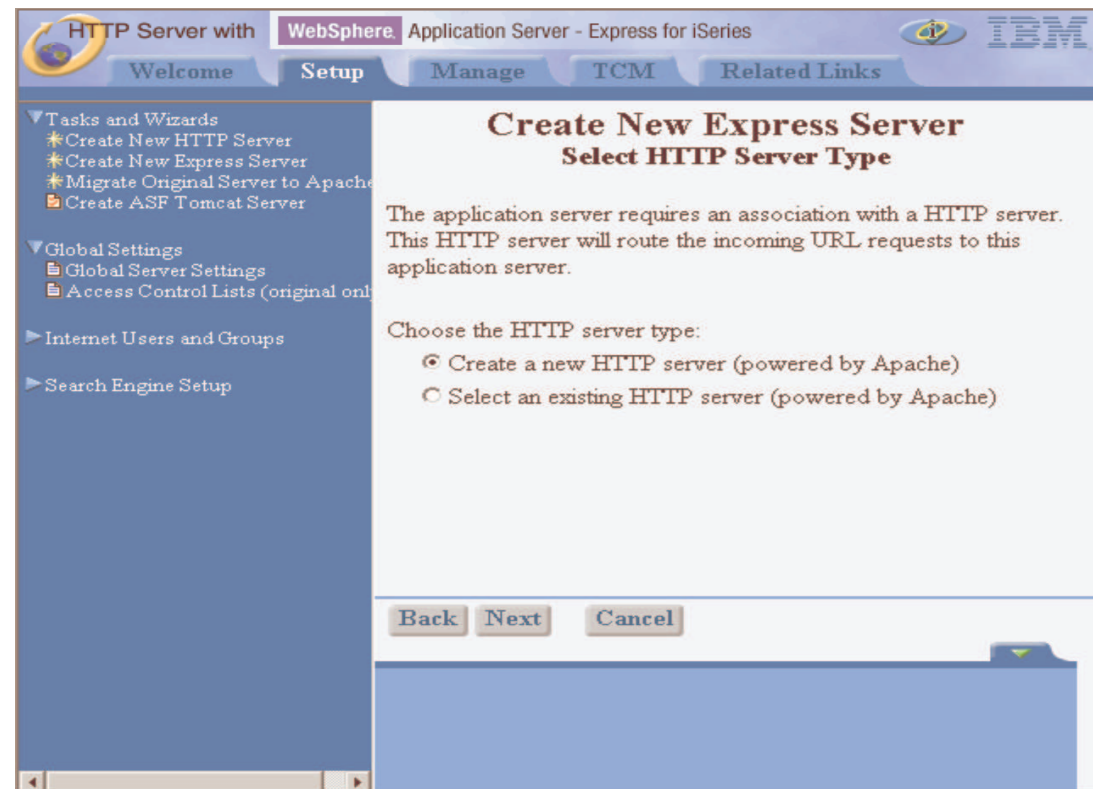
The screenshot shows the 'Specify Application Server - Express Name' page in the IBM WebSphere Application Server - Express for iSeries interface. The page has a blue header with the title 'HTTP Server with WebSphere Application Server - Express for iSeries' and navigation tabs: 'Welcome', 'Setup', 'Manage', 'TCM', and 'Related Links'. On the left, a 'Tasks and Wizards' sidebar lists options: 'Create New HTTP Server', 'Create New Express Server', 'Migrate Original Server to Apache', and 'Create ASF Tomcat Server'. The main content area is titled 'Create New Express Server Specify Application Server - Express Name' and contains the instruction 'Specify a unique name for the application server.' Below this is a text input field labeled 'Application server name:' with the value 'MYINSTANCE' entered. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'. A footer note states 'Click Next to continue or Cancel to leave at anytime.'

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- i. At the **Select HTTP Server Type** page, it is recommended that you elect to create a new HTTP Server (powered by Apache). Click Next.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- j. At the **Create a new HTTP Server (powered by Apache)** page, specify a name for the HTTP Server instance.
- k. Elect to listen to **All IP addresses**. In the **Port** field, you may either keep the default value of 80, or specify a specific port number for the HTTP server instance that will support your WebSphere Application Server - Express for iSeries instance. *Make sure the port number you select is not currently in use!* If you provide a non-default port number, write it down as you will need it in later steps. Click Next.

HTTP Server with WebSphere Application Server - Express for iSeries

Welcome Setup Manage TCM Related Links

▼ Tasks and Wizards

- * Create New HTTP Server
- * Create New Express Server
- * Migrate Original Server to Apache
- Create ASF Tomcat Server

▼ Global Settings

- Global Server Settings
- Access Control Lists (original only)

► Internet Users and Groups

► Search Engine Setup

Create New Express Server

Create a new HTTP server (powered by Apache)

A new HTTP server (powered by Apache) will be created and configured to be used by this application server.

HTTP server name:

Your HTTP server may listen for requests on a specific IP address or on all IP addresses of the system.

On which IP address and TCP port would you like your HTTP server to listen?

IP address:

Port:

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- I. At the **Specify Internal Ports Used by the Server** page, specify the first IP port number in a range of 12 that are not currently in use by the iSeries system. These ports are used by several application server services. For example, to allocate port range 1220-1231, specify port 1220 in the input field. *Make sure the port range you select is not currently in use!* Click Next.

HTTP Server with WebSphere Application Server - Express for iSeries

Welcome Setup Manage TCM Related Links

▼ Tasks and Wizards

- ★ Create New HTTP Server
- ★ Create New Express Server
- ★ Migrate Original Server to Apache
- ★ Create ASF Tomcat Server

▼ Global Settings

- Global Server Settings
- Access Control Lists (original only)

► Internet Users and Groups

► Search Engine Setup

Create New Express Server

Specify Internal Ports Used by the Server

The Application Server - Express, uses several internal services such as internal HTTP transport service, Simple Object Access Protocol (SOAP) service, name service, and several other services to perform its processing. In order for these services to be configured, you must provide a block of 12 consecutive ports that are currently not in use on your system. Specify the first TCP port number in the range and the wizard will assign the ports that are to be used by each internal service. For example, if 3001 is entered as the first port in the range, then ports 3001 to 3012 will be configured.

First port in range:

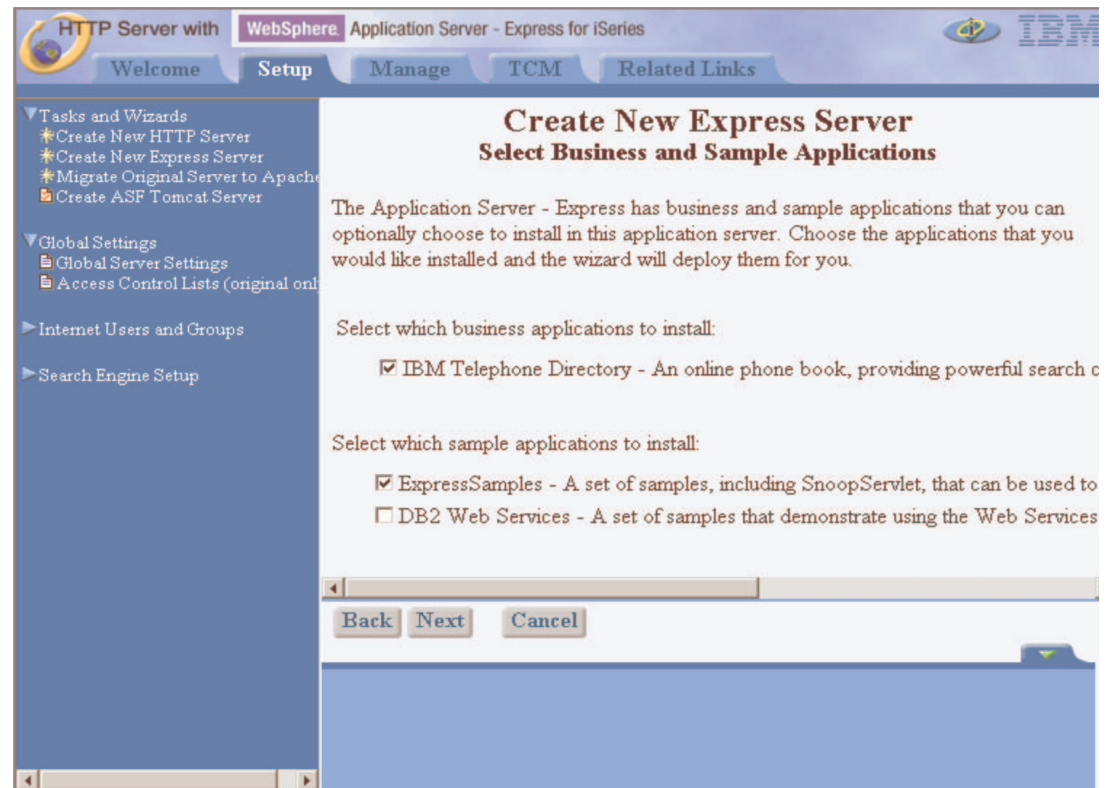
Back Next Cancel

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- m. At the **Select Business and Sample Applications** page, select to install both the IBM Telephone Directory and the ExpressSamples application. This will be used in a later step to verify the application server installation. Click Next.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- n. At the **Summary** page, review the configuration parameters and click Finish.

The screenshot shows the 'Create New Express Server Summary' page in the IBM HTTP Server with WebSphere Application Server - Express for iSeries. The left sidebar contains a navigation menu with 'Tasks and Wizards' expanded, showing options like 'Create New HTTP Server', 'Create New Express Server', 'Migrate Original Server to Apache', and 'Create ASF Tomcat Server'. The main content area displays the summary of the new instance configuration.

Create New Express Server Summary

When you click **Finish** this Application Server - Express will be created.

Application server name: MYINSTANCE
Associated HTTP server: MYHTTPINST
HTTP server addresses: *:80
Internal port range: 4000 - 4011
Virtual host: default_host

Business applications:	
Application name	URL to access
IBM Telephone Directory	ITCEBIZA/biz

Sample applications:	
Application name	URL to access appl
ExpressSamples	ITCEBIZA/Snoop

At the bottom of the page are three buttons: **Back**, **Finish**, and **Cancel**.

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- o. In the upper left-hand corner of the web browser, you will see a status message of **Creating**. It may take several minutes to create the new instance. You will need to click the refresh button periodically to refresh the status.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- p. After the instance has been created, the status message will change to **Stopped**.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- q. Click the start button to the right of the status message to start the new Express instance. The status of the instance will change to **Starting**. Again, click the refresh button periodically. It may take several minutes for the Express instance to start.

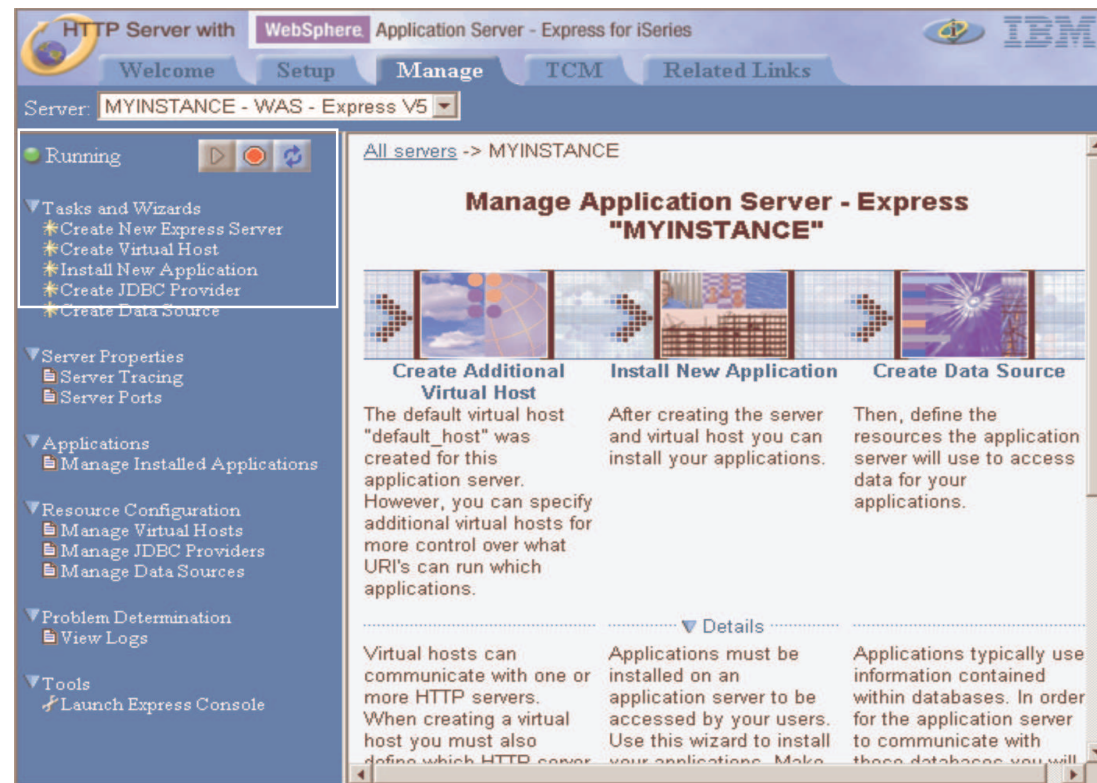


Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- r. After the instance has started, the status will change to **Running**.



Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- s. In the frame in the left-hand side of the browser, click the **Managed Installed Applications** link. You may have to expand the **Applications** section.

HTTP Server with WebSphere Application Server - Express for iSeries

Welcome Setup Manage TCM Related Links

Server: MYINSTANCE - WAS - Express V5

Running

- Tasks and Wizards
 - Create New Express Server
 - Create Virtual Host
 - Install New Application
 - Create JDBC Provider
 - Create Data Source
- Server Properties
 - Server Tracing
 - Server Ports
- Applications
 - Managed Installed Applications**
- Resource Configuration
 - Manage Virtual Hosts
 - Manage JDBC Providers
 - Manage Data Sources
- Problem Determination
 - View Logs
- Tools
 - Launch Express Console

All servers -> MYINSTANCE -> Manage Installed Applications

Manage Installed Applications

Data current as of 05:14:02 PM UTC on 02/12/2003

Installed applications:

	Application name	Status	Enablement
<input type="radio"/>	IBM Telephone Directory	Running	Enabled
<input type="radio"/>	ExpressSamples	Running	Enabled
<input type="radio"/>	adminconsole	Stopped	Disabled
<input type="radio"/>	Business Applications	Running	Enabled

Install Refresh

Close

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- t. Make sure that the **IBM Telephone Directory** and the **ExpressSamples** applications have a status of Running. (If either of them have an Enablement value of **Disabled**, click in the radio button to the left of the application name, and then click the Properties button. Then change the **Application Enablement** value to **enabled** and click OK. Then click the Start button.)

HTTP Server with WebSphere Application Server - Express for iSeries

Welcome Setup Manage TCM Related Links

Server: MYINSTANCE - WAS - Express V5

Running

Tasks and Wizards

- Create New Express Server
- Create Virtual Host
- Install New Application
- Create JDBC Provider
- Create Data Source

Server Properties

- Server Tracing
- Server Ports

Applications

- Manage Installed Applications

Resource Configuration

- Manage Virtual Hosts
- Manage JDBC Providers
- Manage Data Sources

Problem Determination

- View Logs

Tools

- Launch Express Console

All servers -> MYINSTANCE -> Manage Installed Applications

Manage Installed Applications

Data current as of 10:11:38 PM UTC on 02/13/2003

Installed applications:

	Application name	Status	Enablement
<input type="radio"/>	IBM Telephone Directory	Running	Enabled
<input type="radio"/>	ExpressSamples	Running	Enabled
<input type="radio"/>	adminconsole	Stopped	Disabled
<input type="radio"/>	Business Applications	Running	Enabled

Install Refresh

Close

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- u. In the upper left-hand corner of the web browser, there is a pull down with the name of your instance selected. Change the value within to **All Servers**.

The screenshot shows the management console for the IBM HTTP Server with WebSphere Application Server - Express for iSeries. The 'Server' dropdown menu is open, displaying a list of servers. The 'Manage Installed Applications' page is visible, showing a table of installed applications.

Application name	Status	Enablement
IBM Telephone Directory	Running	Enabled
ExpressSamples	Running	Enabled
adminconsole	Stopped	Disabled
Business Applications	Running	Enabled

Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- v. You will see your HTTP server and Express server instance listed in the table shown. Click the radio button next to the name of your Apache server instance (not your WAS - Express V5 instance). It should have a status of **Stopped**. Click the Start button.

The screenshot shows the 'Manage' tab of the IBM HTTP Server for iSeries management console. A table lists various server instances. The 'MYINSTANCE' Apache server is selected with a radio button and highlighted with a red box. The 'MYINSTANCE' WAS - Express V5 instance is also highlighted with a red box and shows a 'Running' status.

Server	Type	Status	Autostart
<input type="radio"/> ADMIN	Apache	Running	Global
<input type="radio"/> APACHE99	Apache	Stopped	Global
<input type="radio"/> APACHEDFT	Apache	Stopped	No
<input type="radio"/> DEFAULT	Original	Stopped	No
<input type="radio"/> HTTP99	Apache	Stopped	Global
<input type="radio"/> MYHTTPINST	Apache	Stopped	Global
<input checked="" type="radio"/> MYINSTANCE	Apache	Stopped	Global
<input type="radio"/> MYINSTANCE	WAS - Express V5	Running	N/A
<input type="radio"/> TOMCAT99	ASF Tomcat	Stopped	N/A
<input type="radio"/> WAS40AE	Apache	Stopped	Global
<input type="radio"/> WAS40AES	Apache	Stopped	Global

Buttons at the bottom: Refresh, Start, Stop, Restart, Monitor, Manage Details, Delete, Rename.

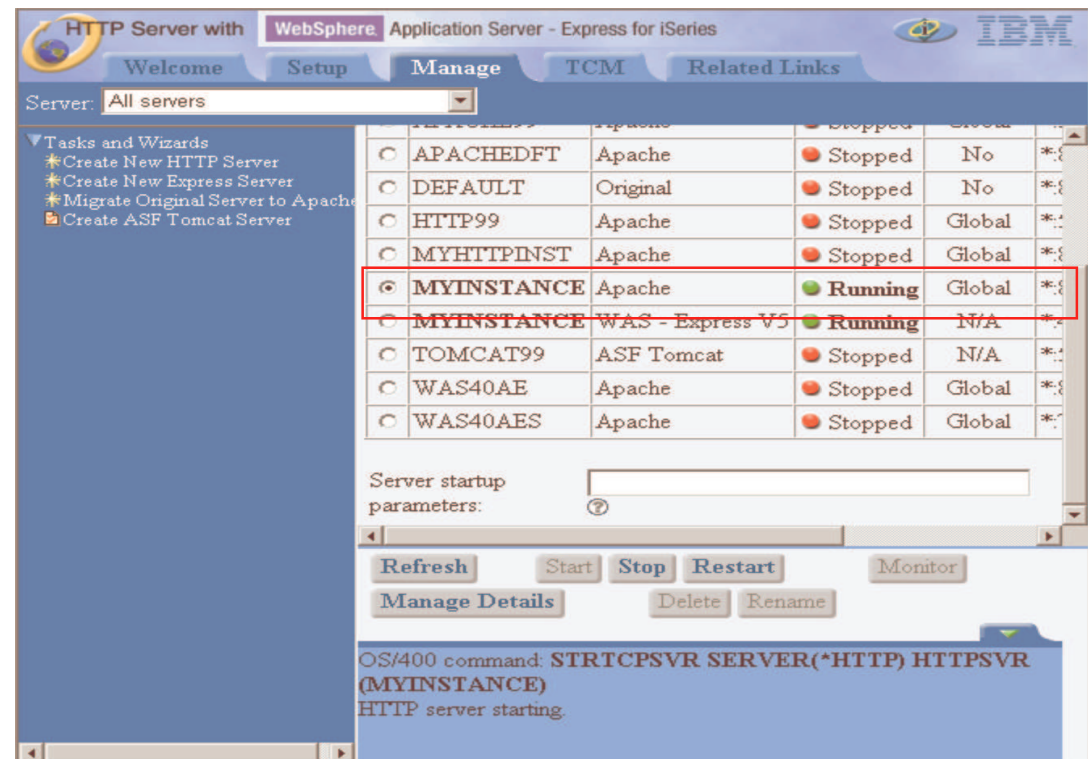
Step 3d. Create an IBM WebSphere Application Server - Express for iSeries instance

Configure an Express Instance

To configure an Express instance within the IBM HTTP Server for iSeries (powered by Apache) V5R2 release, continue with the following steps (cont.):

- w. Your HTTP server instance should change to a status of **Running** after several seconds.
- x. Close the Web browser, and from OS/400 Command Entry, enter the following command:

ENDTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)



Step 4. Verify the Installation

Access IBM Telephone Directory

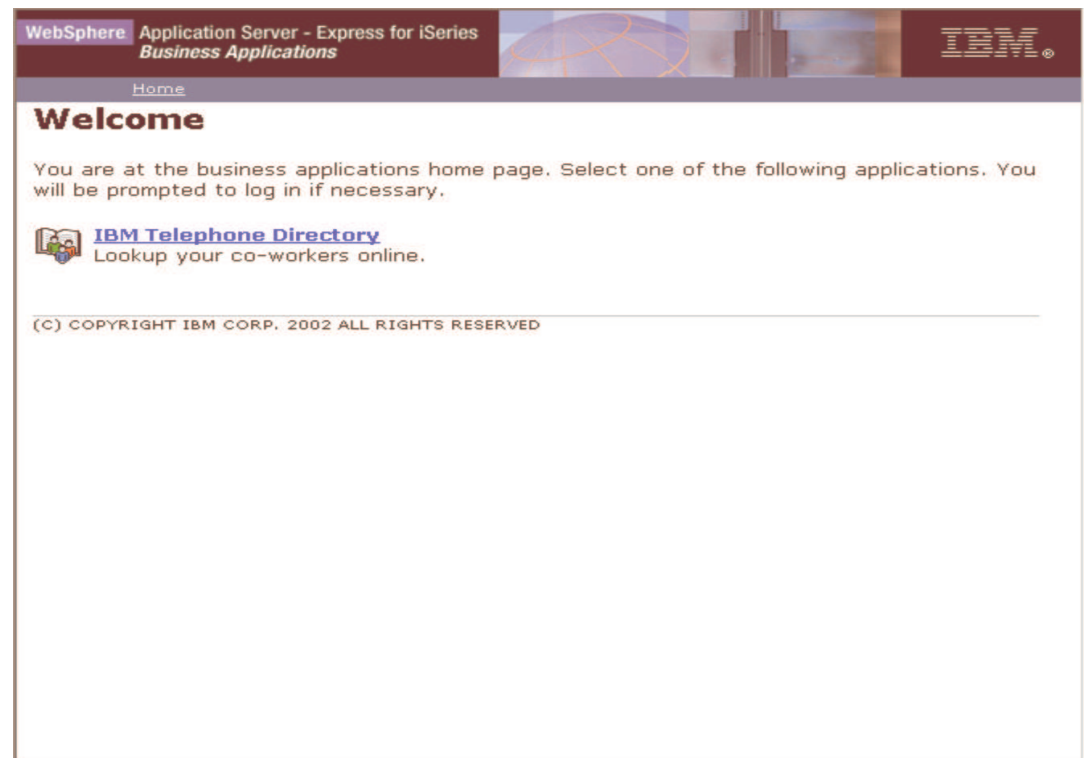
To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following:

- a. If the target iSeries system was preloaded with IBM WebSphere Application Server - Express for iSeries, navigate to the IBM Telephone Directory application with the following URL:

<http://host-name:2020/bizApps/>

where host-name is the host name of the target iSeries system. Then click the **IBM Telephone Directory** link.

- OR -



Step 4. Verify the Installation

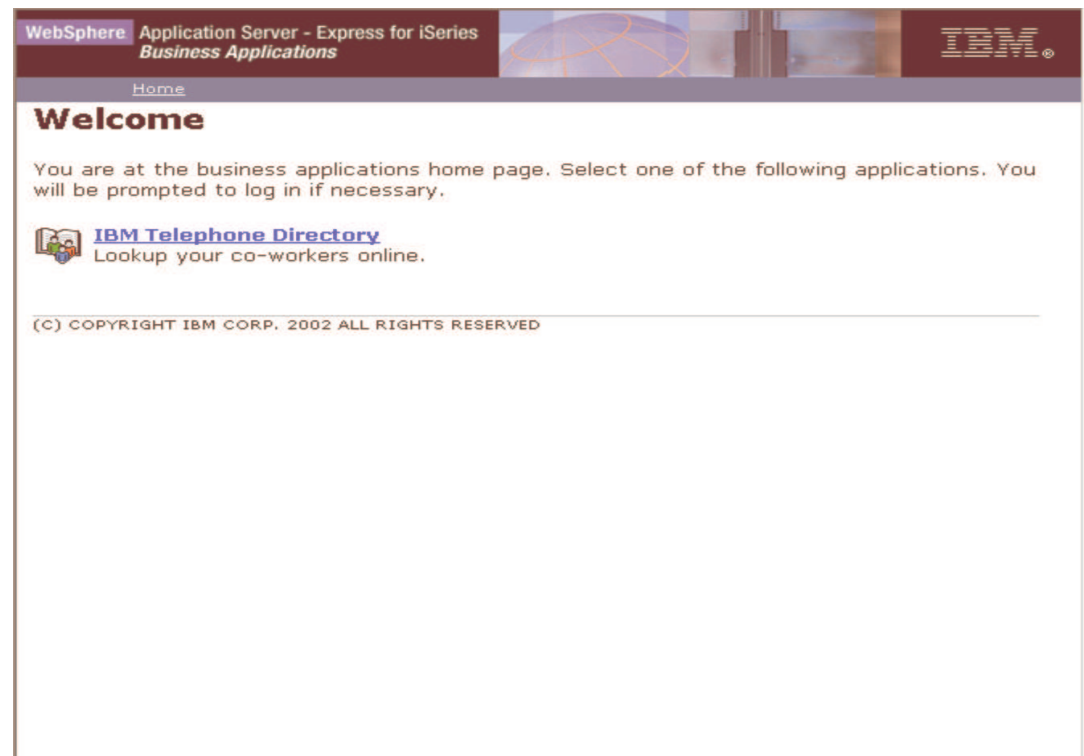
Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

If the target iSeries system was **not** preloaded with IBM WebSphere Application Server - Express for iSeries, navigate to the IBM Telephone Directory application with the following URL:

`http://host-name:port/bizApps/`

where host-name is the host name of the target iSeries system, and port is . port number of the HTTP server instance you created earlier. Then click the **IBM Telephone Directory** link.



Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- b. IBM Telephone Directory is not initially populated with employee data (unless you've configured it to use your existing data). To sample the employee registration process, click the Register link.
- c. You will be asked to authenticate. Use the predefined administrator id **iweAdministrator**. If IBM WebSphere Application Server - Express for iSeries was preloaded on the target iSeries system, the shipped password is **IBMTELDIR**. Otherwise, use the password you specified during step #3c. Note that the password is case sensitive!

WebSphere Application Server - Express for iSeries
Business Applications

Home

[Search](#)
[Advanced Search](#)
[Help](#)
[Register](#)

Search

Search for an employee using the fields below.

Search On: [Advanced Search](#)

Search For:

Search Tips

When searching by name, enter the last name first. To search for matches that begin or end with the same characters, use an asterisk as a wildcard.

Examples of searches by name: Smith, John
smi*,j
*ith

Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- d. Populate the registration page with data for a specific employee. When finished, press the Submit button at the bottom of the page.

The screenshot shows the 'Register' page of the IBM Telephone Directory. The page header includes 'WebSphere Application Server - Express for iSeries Business Applications' and the IBM logo. A left sidebar contains links for 'Search', 'Advanced Search', 'Help', and 'Register'. The main content area is titled 'Register' and includes an 'Exit Register' link. Below the title, instructions state: 'Fill out the fields below and click 'Submit' to register and create your profile for listing within the IBM Telephone Directory. A suggested User ID will be prefilled below based on the name you enter. However, you may change the User ID to a different value if you prefer to do so. Fields marked with an asterisk (*) are required.' The form is divided into two sections: 'Registration Information' and 'Profile Information'. The 'Registration Information' section contains fields for First Name (Joe), Middle Initial (M), Last Name (Smith), Suffix (empty), User ID (Joe M Smith), Password (masked with asterisks), and Confirm Password (masked with asterisks). The 'Profile Information' section contains fields for Preferred First Name (Joe), Title (Mr.), and Alternate Last Name (empty). Examples like 'e.g., Jr.' and 'e.g., Bob' are provided for the Suffix and Preferred First Name fields respectively. A 'Max. 16 characters' limit is noted for the Password field.

Registration Information	
First Name:	<input type="text" value="Joe"/>
Middle Initial:	<input type="text" value="M"/>
Last Name:	<input type="text" value="Smith"/>
Suffix:	<input type="text"/> e.g., Jr.
User ID:	<input type="text" value="Joe M Smith"/>
Password:	<input type="password" value="*****"/> Max. 16 characters
Confirm Password:	<input type="password" value="*****"/>

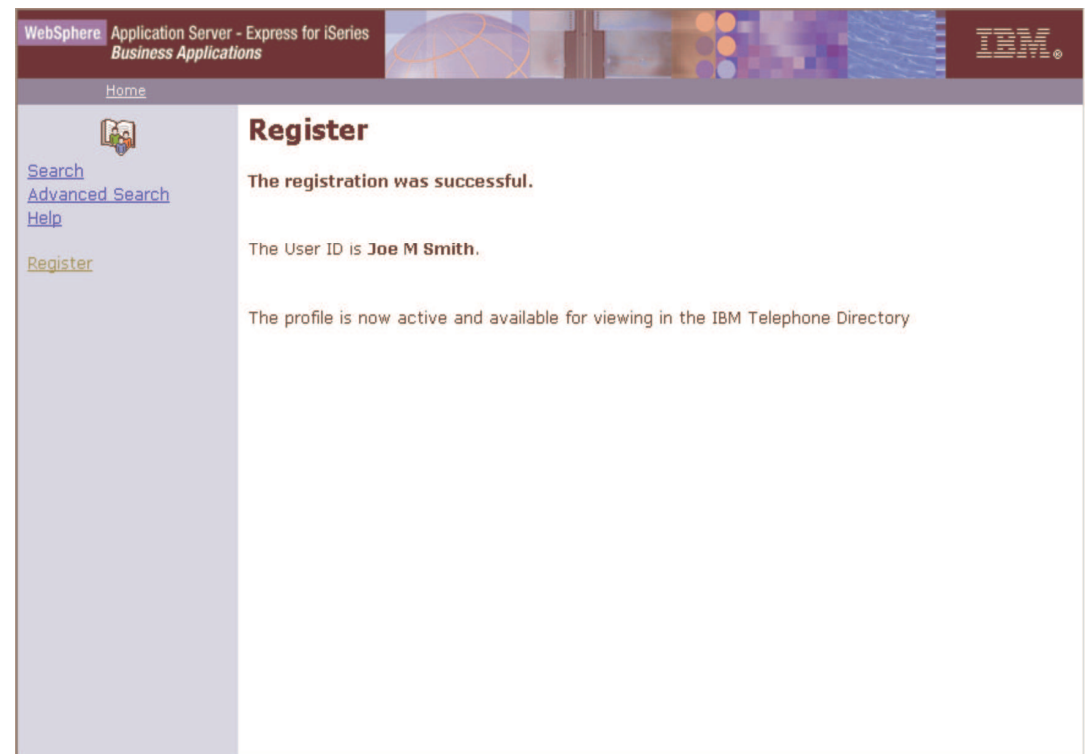
Profile Information	
Preferred First Name:	<input type="text" value="Joe"/> e.g., Bob
Title:	<input type="text" value="Mr."/> <input type="button" value="v"/>
Alternate Last Name:	<input type="text"/>

Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- e. When the registration confirmation screen appears, click the Search button.



Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- f. On the Search page, specify to search on a Name, then specify to search for the name you just entered, with the last name followed by the first name. Click the Search button.

WebSphere Application Server - Express for iSeries
Business Applications

Home

[Search](#)
[Advanced Search](#)
[Help](#)
[Register](#)

Search

Search for an employee using the fields below.

Search On: [Advanced Search](#)

Search For:

Search Tips

When searching by name, enter the last name first. To search for matches that begin or end with the same characters, use an asterisk as a wildcard.

Examples of searches by name: Smith, John
smi*,j
*ith

Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- g. Ensure that information for the specified employee appears.
- h. If IBM WebSphere Application Server - Express for iSeries was not preloaded on the target iSeries system, you have completed the installation and configuration process. Otherwise, continue with the instructions in this step.

WebSphere Application Server - Express for iSeries
Business Applications

Home

Search
Advanced Search
Help
Register

Search

Search for an employee using the fields below.

Search On: [Advanced Search](#)

Search For:

Have Same Manager ☐ Report-to-Chain ☐ [Manages](#)

[Update Profile](#) [Change Password](#) [Delete Profile](#)

Smith, Joe M

Preferred First Name: Joe
Title: Mr.
Job Responsibility: Staff Manager
Phone (Primary): 800-555-5555
Email: joe.smith@mycompany.com
Business Address: 100 Oak Street
My Town, MN 55555

picture not available

Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- i. You must change the shipped password for the **iweAdministrator** ID. Specify to search on name **iweAdministrator** and click the Search button.
- j. Click the Change Password link and authenticate when prompted with ID **iweAdministrator** and password **IBMTELDIR**. Note that the password is case sensitive

WebSphere Application Server - Express for iSeries
Business Applications

Home

Search

Search for an employee using the fields below.


Search On: [Advanced Search](#)

Search For:

Have Same Manager [Report-to-Chain](#)

[Update Profile](#) [Change Password](#) [Delete Profile](#)

iweAdministrator

 picture not available

Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- k. Specify a new password and retype it to verify. Then press the Submit button.
- l. Press OK when prompted to proceed with the password change.

WebSphere Application Server - Express for iSeries
Business Applications

Home

Search
[Advanced Search](#)
[Help](#)
[Register](#)

Change Password

Fill out the fields below and click 'Submit' to change the password for User ID **iweAdministrator**.
Fields marked with an asterisk (*) are required.

Password Information

New Password: * Max. 16 characters

Confirm New Password: *

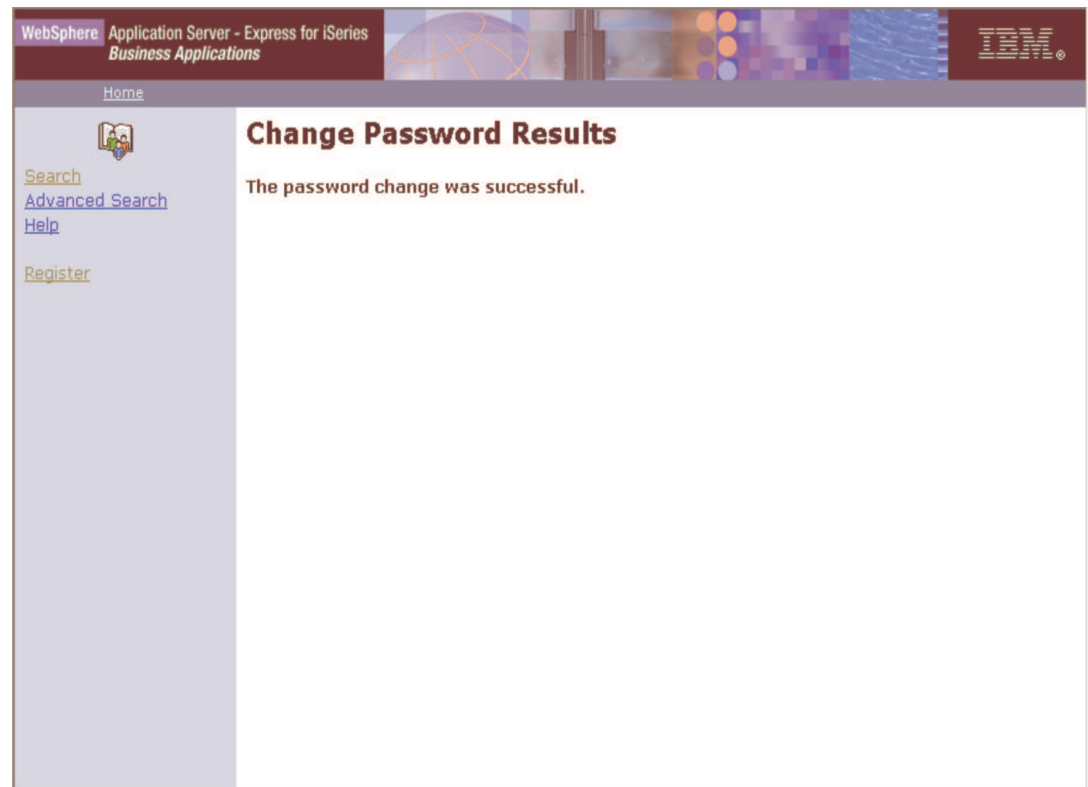
[Exit Change Password](#)

Step 4. Verify the Installation

Access IBM Telephone Directory

To verify the installation and configuration of IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory, do the following (cont.):

- m. Ensure the confirmation screen appears. You have now successfully installed and configured IBM WebSphere Application Server - Express for iSeries and IBM Telephone Directory for preloaded iSeries systems.



What if it still doesn't work?

- ✓ Reread the IBM WebSphere Application Server - Express for iSeries documentation. Check and **double check** everything.
- ✓ Verify that subsystem QASE5 has a running job named after the IBM WebSphere Application Server - Express for iSeries instance that was created. Verify that the job log states that the instance is ready.
- ✓ Read the **Troubleshooting** section of the IBM WebSphere Application Server - Express for iSeries documentation.
- ✓ Contact IBM Technical Support.

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e(logo)Server	iSeries	MQSeries	OS/400
WebSphere			

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