



IBM Systems - iSeries

iSeries Access for Windows: Installation and setup

Version 5 Release 4





IBM Systems - iSeries

iSeries Access for Windows: Installation and setup

Version 5 Release 4

Note

Before using this information and the product it supports, read the information in “Notices,” on page 45.

Seventh Edition (February 2006)

This edition applies to version 5, release 4, modification 0 of iSeries Access for Windows (5722-XE1) and to all subsequent releases and modifications until otherwise indicated in new editions. This version does not run on all reduced instruction set computer (RISC) models nor does it run on CISC models.

© Copyright International Business Machines Corporation 1999, 2006. All rights reserved.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

Chapter 1. Introduction to iSeries

Access for Windows	1
-------------------------------------	----------

Chapter 2. iSeries Access for Windows: Installation and setup

Installation and setup	3
What's new for V5R4	3
Printable PDF	3
License information for iSeries Access for Windows	4
Usage limit for a license	4
Use the iSeries Access for Windows Family licensed program	5
Set up the server for iSeries Access for Windows	5
Prerequisites to install iSeries Access for Windows on the iSeries server	6
Steps to Install iSeries Access for Windows on the iSeries server	8
Get and Install PTFs	9
Configure TCP/IP on the iSeries server	10
Configure iSeries NetServer on the iSeries server	10
Remove iSeries Access for Windows from the iSeries server	12
Set up the PC.	12

Prerequisites to set up the PC for iSeries Access for Windows	12
Set up TCP/IP on the PC.	14
Configure the PC for iSeries NetServer Use.	18
Install iSeries Access for Windows on the PC	20
Upgrade iSeries Access for Windows	37
Publish directory information to LDAP	37
Uninstall iSeries Access for Windows from the PC	38
Related information	38

Chapter 3. iSeries Access for Windows: Using

Chapter 4. Code license and disclaimer information

Appendix. Notices

Programming Interface Information	46
Trademarks	47
Terms and conditions	47

Chapter 1. Introduction to iSeries Access for Windows

Learn how to access your iSeries™ server using a Windows® PC.

IBM® eServer™ iSeries Access for Windows is a key offering in the 5722-XE1 product. Pre-V5R2 versions of IBM eServer iSeries Access for Windows were called Client Access Express. IBM eServer iSeries Access for Windows offers a powerful set of capabilities for connecting PCs to iSeries servers. Users and application programmers can use it to leverage business information, applications, and resources across an enterprise by extending the iSeries resources to the PC desktop. Integrated graphical user interface (GUI) functions deliver increased productivity for users who access resources on iSeries servers.

iSeries Access for Windows is compatible with Windows 2000, Windows XP, and Windows Server 2003 operating systems.

IBM eServer iSeries Access for Windows has the following features:

- It is a Windows client used over TCP/IP.
- It is a full-function client that includes a 5250 display and printer emulator, includes iSeries Navigator to manage your iSeries server, provides accessibility to DB2® UDB for iSeries files, and much more.
- It communicates with iSeries servers over a secure connection that uses Secure Sockets Layer (SSL) encryption. In addition, it supports FIPS-compliance (Federal Information Processing Standards), via a client-side, SSL encryption switch.
- It provides a streamlined installation which also gives administrators more flexibility and control.
- It is Java-compatible.
- It uses file and print serving capabilities integrated into the iSeries Support for Windows Network Neighborhood (iSeries NetServer™) function.
- It includes an extensive number of application programming interfaces (APIs), such as APIs for ODBC, Active X, ADO, OLE DB, and ADO.NET.

Related concepts

iSeries Access for Windows: Administer

iSeries Access for Windows: Program

Chapter 2. iSeries Access for Windows: Installation and setup

Use this topic to install and configure iSeries Access for Windows on both the iSeries server and the PC.

Installation and configuration are necessary on both the iSeries server and the PC. This topic assumes that the system administrator will install and configure the iSeries server, while the user will install iSeries Access for Windows on the PC.

Note: By using the code examples, you agree to the terms of the Code license and disclaimer information.

Related concepts

iSeries Access for Windows: Administer

iSeries Access for Windows: Program

What's new for V5R4

Learn about new and changed installation and set up information for this release of iSeries Access for Windows.

New iSeries Access for Windows installation features include:

- Secure Sockets Layer (SSL) support
 - SSL is available for 64-bit applications on personal computers powered by the Intel® Itanium (Intel 64-bit) Processor Family.
 - 128-bit SSL Client Encryption is now shipped with the iSeries Access for Windows (XE1) product.
- A 64-bit AFP™ Printer Driver for use on 64-bit versions of Windows operating systems, running the Intel Itanium (Intel 64-bit) Processor Family of personal computers is supported.
- Add-ins are no longer supported, beginning with V5R4.
- For information about upgrading iSeries Access for Windows to V5R4, see “Upgrade iSeries Access for Windows” on page 37.

Note: iSeries Access for Windows V5R4 does not install on the Windows 98, Windows Me, and Windows NT® operating systems.

Printable PDF

Use this to view and print a PDF of this information.

To view or download the PDF version of this document, select Installation and setup of iSeries Access for Windows (about 534KB).

Saving PDF files

To save a PDF on your workstation for viewing or printing:

1. Right-click the PDF in your browser (right-click the link above).
2. Click the option that saves the PDF locally.
3. Navigate to the directory in which you want to save the PDF.
4. Click **Save**.

Downloading Adobe Reader

- | You need Adobe Reader installed on your system to view or print these PDFs. You can download a free copy from the Adobe Web site (www.adobe.com/products/acrobat/readstep.html) .

License information for iSeries Access for Windows

Learn about the licensing requirements for iSeries Access for Windows.

IBM eServer iSeries Access for Windows is a licensed program. Some components of iSeries Access for Windows require an iSeries Access Family (5722-XW1) license before you can use them. All components are installed with the iSeries Access for Windows program.

To use the iSeries Access for Windows Family licensed program (5722-XW1), you must determine the usage limit of the license, update the usage limit on your iSeries server, and enter the license key information.

The following components require an iSeries Access Family license and an i5/OS™ license before you can use them:

- PC5250 Display and Printer Emulation
- Data Transfer

Important: A software license key is required for iSeries Access Family 5722-XW1. iSeries Access Family is included on the Keyed Stamped Media that comes with all i5/OS software orders for the specific release. You receive a license key if you order 5722-XW1. If you have not ordered 5722-XW1, you can evaluate the product from the keyed stamped media for 70 days. At the end of the 70-day evaluation period, the product will be disabled if you have not ordered the product and received a software license key. The software license key is an 18-digit authorization code that allows the software product and feature on the keyed stamped media to be used on a specified iSeries server.

All components other than PC5250 Display and Printer Emulation and Data Transfer components require only an i5/OS license before you can use them.

The type of installation you choose to perform determines which components are installed. Following are the types of installations you can choose and whether or not the component requires a license to install:

- The **Typical**, **PC5250 User**, and **Full** installation choices include components that require an iSeries Access Family license.
- With the **Custom** install choice, you can choose which components to install. Depending on the components you select, you might not be required to have an iSeries Access Family license. The setup program lists the components that require a license.

Note: A license is not required to install the PC5250 Display and Printer Emulation component or the Data Transfer component, but a license is required to **run** these components.

Usage limit for a license

iSeries Access for Windows clients are licensed by the number of concurrently active PCs accessing iSeries servers. A PC running iSeries Access for Windows holds a license through the duration of the licensed function plus additional time that is specified in the iSeries Access for Windows properties page. When this time expires, the license is available for another PC to use. If a PC accesses a licensed program on more than one iSeries server, that PC requires a license on each iSeries server to which it connects using a licensed function.

When using iSeries Access for Windows on a PC, more than one session to the iSeries server can be established on that PC, but only one iSeries Access Family license is used. For example, you can start many 5250 emulation or Data Transfer sessions, but the PC requires only one license.

iSeries Access for Web (5722-XH2) is another product that requires iSeries Access Family licenses. Be aware that if the iSeries Access for Web product is being used on the same PC as iSeries Access for Windows, each of those products will use a separate license. Therefore, when using both products, one PC will use a minimum of two iSeries Access Family licenses. For more information about license usage for iSeries Access for Web, see the iSeries Access for Web license information topic.

Licensing is managed at the iSeries Access Family level, not at the individual client level. Therefore, any combination of the iSeries Access for Windows and iSeries Access for Web clients is allowable up to the license limit.

To determine the iSeries Access license usage limit, do the following:

1. Type the WRKLICINF command on the iSeries server to which you intend to connect. A list of products appears.
2. Type 5 in the entry field next to the product 5722XW1, Base, Feature 5050. This will display the details for the iSeries Access Family License product, including the usage limit. The usage limit should be equal to the number of licenses that are purchased for iSeries Access Family. Any number exceeding the purchased limit violates the IBM license agreement.

Use the iSeries Access for Windows Family licensed program

To use the iSeries Access for Windows Family licensed program (5722-XW1), you must update the usage limit and enter the license key information.

1. To update the usage limit for the 5722-XW1 product on your server, do the following:
 - a. Type the WRKLICINF command on the iSeries server to which you intend to connect. A list of products appears.
 - b. Type 2 in the entry field next to the product 5722XW1 Base, Feature 5050. Change the usage limit to the number of licenses that you have purchased for iSeries Access. If you have purchased the processor-based option for iSeries Access, enter the value *NOMAX for usage limit. Entering any number that exceeds the purchased limit violates the IBM license agreement.
2. To enter the license key information, do the following:
 - a. Type the WRKLICINF command on the iSeries server to which you intend to connect. A list of products appears.
 - b. Type 1 in the entry field next to the product 5722XW1 Option 1, Feature 5101.
 - c. Enter the license key information. For information about entering license key information, see "Required and optional programs to install" on page 6.

Set up the server for iSeries Access for Windows

Use this information to learn the steps to install iSeries Access for Windows and other required and optional programs on your iSeries server.

To use iSeries Access for Windows, you must install and configure software on both the server and the PC. iSeries Access for Windows must be installed on your server before you can install iSeries Access for Windows service packs on your server. After installation on your server, you can install iSeries Access for Windows from the iSeries server to the client PCs.

Use this information to guide you through the steps necessary to install and configure iSeries Access for Windows on the iSeries server.

Related concepts

“Set up the PC” on page 12

Use this information to learn the steps to set up your PC for iSeries Access for Windows use, and to install iSeries Access for Windows on your PC.

Related reference

“Related information” on page 38

Find other sources of information about iSeries Access for Windows.

Prerequisites to install iSeries Access for Windows on the iSeries server

This information steps you through determining which required and optional programs you should install on the iSeries server.

You should install all required and optional programs at the same time.

Choose from the following topics to verify that your iSeries server meets the requirements for installing iSeries Access for Windows.

iSeries release requirements

Identify the version and release of the server that is supported by iSeries Access for Windows in V5R4.

iSeries Access for Windows V5R4M0 (5722-XE1) only installs on servers with i5/OS V5R3 or later. If you are installing on a server that does not meet this criteria, you need to follow the Install, update, or delete i5/OS and related software instructions before you install 5722-XE1.

Also, you might need to upgrade other servers to which your PC connects, after iSeries Access for Windows has been installed on your PC. IBM only supports PC connections to servers with i5/OS V5R2 and later. If these servers do not meet this criteria, you need to upgrade the i5/OS on these servers to a supported release by following the Install, update, or delete i5/OS and related software instructions.

In order to install on the iSeries server, you need a security level of Security Officer (*SECOFR). This is the highest level of security on the iSeries server. This security level is required for installation only, not for regular use of iSeries Access for Windows.

Related information

Install, upgrade, or delete i5/OS and related software

iSeries storage requirements

Your server must have sufficient storage to install iSeries Access for Windows or the installation is not completed.

Table 1. iSeries space required to install iSeries Access for Windows

Amount	Purpose
184MB	Install image
24.2MB*	Online help information, online User's Guide, messages

*This size is for the 2924 (English) national language version (NLV). Sizes vary according to the NLV.

See Install the i5/OS release and related software for instructions on checking the amount of storage your server has available.

Required and optional programs to install

Verify which programs to install, depending on the iSeries Access for Windows functions that are used.

As you go through this topic, make note of the programs you need to install. The names are needed as you walk through the installation steps.

Note: The iSeries Access for Windows primary language on the iSeries server is set to the first iSeries Access for Windows language that you install. However, if you install a subsequent iSeries Access for Windows language that matches the i5/OS primary language, that language becomes the new iSeries Access for Windows primary language on the iSeries server.

Required licensed program options

Table 2. Required programs to install for iSeries Access for Windows

Program	Option	Description
5722-SS1	12	Host Servers
5722-XE1	Base	iSeries Access for Windows
5722-XW1	Base, 1	iSeries Access Family
5722-TC1		TCP/IP Utilities

Note: Each product that you install needs to be at the latest level.

Notes:

1. You only need to install iSeries Access Family 5722-XW1 Base and Option 1 if you want to use Data Transfer, PC5250 Display, or Printer Emulation.
2. 5722-XE1 does not necessarily have to be installed on your server. Nevertheless, you need to install 5722-XE1 if you want to use the following parts of iSeries Access for Windows:
 - Service Pack management
 - Secondary Language support
 - Install and Selective Setup through the iSeries server
3. To use 5722-XW1, update the usage limit for the 5722-XW1 product on your server by doing the following:
 - a. Type the WRKLICINF command on the iSeries server to which you intend to connect. A list of products appears.
 - b. Type 2 in the entry field next to the product 5722XW1 Base, Feature 5050. Change the usage limit to the number of licenses that you have purchased for iSeries Access Family. If you have purchased the processor-based option for iSeries Access Family, enter the value *NOMAX for usage limit. Entering any number that exceeds the purchased limit violates the IBM license agreement.
4. To use 5722-XW1, enter the license key information by doing the following:
 - a. Type the WRKLICINF command on the iSeries server to which you intend to connect. A list of products appears.
 - b. Type 1 in the entry field next to the product 5722XW1 Option 1, Feature 5101. Enter the license key information.

Note: ADDLICKEY values for Usage Limit and Processor Group for Feature 5101:

- In the **Usage Limit** field on the ADDLICKEY display, always enter the value *NOMAX, as indicated on your key sheet, regardless of the usage limit entered for 5722XW1 Base (Feature 5050) when you updated your usage limit. The usage limit value of *NOMAX is required as part of the software key, but it is not a representation of the number of users licensed under a usage based license.
- In the **Processor Group** field on the ADDLICKEY display, enter the value *ANY for a user-based license. A processor-based license will have a processor group value that corresponds to the processor group licensed.

Optional licensed programs

Secure Sockets Layer (SSL) support with iSeries Access for Windows is available. To use SSL, order and install the products listed below. For these products, you are responsible for making sure that you are using the correct encryption for your country or region and for the countries or regions in which your iSeries server does business.

- 5722-SS1 - Digital Certificate Manager (Boss Option 34)
- 5722-DG1 (HTTP Server)

Notes:

1. Beginning with V5R4M0, SSL support is automatically installed on an upgrade of iSeries Access for Windows, if the PC already has a version of Client Encryption installed.
2. The SSL component contains encryption software from RSA Data Security, Inc.

See SSL descriptions in Administer iSeries Access for Windows to learn more about configuring SSL.

Related tasks

“Steps to Install iSeries Access for Windows on the iSeries server”

This information steps you through installing the required and optional programs on the iSeries server.

Related information

Required and optional programs to install

See this topic for additional information on required and optional programs to install.

Steps to Install iSeries Access for Windows on the iSeries server

This information steps you through installing the required and optional programs on the iSeries server.

The following steps guide you through installing iSeries Access for Windows (5722-XE1) and optional programs on the iSeries server. You should install all required and optional programs at this time. To determine which programs to install, see “Required and optional programs to install” on page 6.

1. Sign off all workstation users and end all connections.
2. Sign on to the iSeries server with *SECOFR authority.
3. Load the medium containing the licensed programs on the installation device. If the licensed programs are contained on more than one medium, you can load any one of them.
4. If you are installing 5722-SS1, Option 12 (Host Servers), then you must put the iSeries server in a restricted state. To put the iSeries server in a restricted state:
 - a. At the iSeries command prompt, type CHGMSGQ QSYSOPR *BREAK SEV(60) and press Enter.
 - b. If the Display Messages display appears, press Enter. You will return to the iSeries command prompt.
 - c. At the iSeries command prompt, type ENDSBS *ALL *IMMED and press Enter.
 - d. The message System ended to restricted condition appears. Press Enter to continue.
 - e. At the iSeries command prompt, type CHGMSGQ QSYSOPR SEV(95) and press Enter.
 - f. If the Display Messages display appears, press Enter. You will return to the iSeries command prompt.

The iSeries server should now be in a restricted state.

Note: Once you are done installing everything, you can end restricted state by starting the controlling subsystem with the **STRSBS** command, specifying the **Controlling Subsystem (QCLTLBSD)** system value.

5. At the iSeries command prompt, type `G0 LICPGM`, and then select Option 11. For information about option 11, see Options for displaying, installing, deleting, and saving from a list in the Information Center.
6. Type 1 in the Option column next to each of the licensed programs that you need to install. For a list of the programs you need to install, see the “Required and optional programs to install” on page 6 topic. Press Enter to continue.
7. The Confirm Install of Licensed Programs display appears. Press Enter to confirm your choices. The Install Options display appears.
8. Specify the following values and press Enter:

Parameter	Value
Installation Device	Name of the installation device. For example, OPT01.
Objects to Install	1
Automatic IPL	N

9. The licensed programs will now install.
 - You will see a display that indicates the status of the installation. You do not need to respond to the status display.
 - If the licensed programs that you selected are on multiple volumes, the installation program will prompt you for a new volume. Load the next media volume, press `G`, and then press Enter. If you do not have any additional media volumes, press `X`, and then press Enter.
10. When the installation completes, you will see the Work with Licensed Programs display.
 - If the installation ran successfully, you will see Work with licensed programs function has completed. Press `F3` to return to the iSeries command prompt.
 - If the installation failed, you will see Work with licensed programs function not complete. See Install, upgrade, or delete i5/OS and related software to determine the problem.
11. Verify that iSeries Access for Windows installed correctly by typing `CHKPRDOPT 5722XE1` at the iSeries command prompt. If iSeries Access for Windows installed correctly, you will receive a message that `CHKPRDOPT` did not detect any errors.
12. Install the latest cumulative PTF package on the iSeries server. See “Get and Install PTFs” for information installing PTFs. (Note that whenever you have installed the latest cumulative package and you have not installed 5722-XE1, you need to install all 5722-XE1 service pack PTFs from the cumulative PTF package after installing 5722-XE1.)

Get and Install PTFs

Obtain the latest PTFs and service packs for your server to avoid unnecessary service calls and create a more stable operating environment.

Fixes for iSeries Access for Windows are integrated into service packs, which are packaged into a program temporary fix (PTF) for delivery. You can download the latest PTF to your iSeries server to provide a more stable operating environment for the iSeries Access for Windows client, and to correct known problems. Once you have installed the PTF on your host system, you can use the **When to check service level** function to distribute service packs to client PCs.

Service pack PTFs update the iSeries Access for Windows installation image on the iSeries server. All installations reflect the latest service pack level of the host iSeries server.

Note: Only users with administrator authority can perform installations, service pack updates, and upgrades to new releases, however, you can allow your users to **Access scheduled tasks remotely** without administrator privileges.

Obtain the latest PTF for installation on your iSeries server

Use the send PTF order (SNDPTFORD) command to order the PTF for your iSeries server. Since the service pack PTFs generally exceed the size limit to be sent electronically, you can receive the PTF on media by changing the Delivery Method, DELIVERY, parameter on SNDPTFORD to *ANY. (The parameter defaults to *LINKONLY.) Alternatively, use Fix Central.

You can also order a service pack CD electronically, and place it directly in the integrated file system in a Virtual Optical Device from which you can install. To use this option, you must prearrange it with IBM Service.

To learn more about PTF ordering options, see IBM iSeries support

(<http://www.ibm.com/eserver/iseries/support/>)  and select **Fixes** from the left menu.

Related concepts

“When to check service level function” on page 31
Check for updates to iSeries Access for Windows.

Related tasks

“Access scheduled tasks remotely” on page 34
Apply service pack updates without administrator privileges.

Related reference

“Install service packs” on page 30
Apply iSeries Access for Windows service packs.
“Download sites for service packs” on page 33
Find PC-executable service packs.

Configure TCP/IP on the iSeries server

Use this information to configure TCP/IP on the iSeries server.

TCP/IP is a licensed program that is shipped with i5/OS. This information assumes that you have TCP/IP installed on your iSeries server. You can find the procedure for installing TCP/IP (5722-TC1) on your iSeries server in Install additional licensed programs.

If you have TCP/IP already set up on your iSeries server, then you do not need to perform any additional TCP/IP configuration for iSeries Access for Windows.

Note: VPN is an option for secure remote connections. For iSeries VPN information, see Virtual private networking.

Configure TCP/IP for LAN use

If you plan on using iSeries Access for Windows over a LAN, then you must configure TCP/IP for LAN use. For information about configuring TCP/IP on your iSeries server, see TCP/IP Setup.

Configure TCP/IP for PPP or SLIP connections

If you are using SLIP or PPP to connect the PC to the iSeries server, see the topic about PPP connections for information about configuring point-to-point TCP/IP.

Configure iSeries NetServer on the iSeries server

You can use iSeries NetServer to make the iSeries Access for Windows install image on the iSeries server available to PC users. Find configuration instructions in this information.

Configure iSeries NetServer on your iSeries server to allow users to install iSeries Access for Windows from your iSeries server.

iSeries Access for Windows uses the network drive or network printer capabilities provided by iSeries Support for Windows Network Neighborhood (iSeries NetServer). By relying on iSeries NetServer, iSeries Access for Windows is able to take advantage of the file and print sharing capabilities integrated into Windows operating systems.

Notes:

1. iSeries NetServer allows a Kerberos ticket for user authentication. Kerberos is a third-party authentication mechanism where the client proves its identity to a Kerberos server (or Key Distribution Center), and then receives a ticket in return. The client can then use that ticket to cryptographically prove its identity to other servers on the network. The Kerberos ticket is used to authenticate a user to a server rather than passing user ID and password as the authentication data. Microsoft® has added Kerberos authentication abilities to Windows 2000 and Windows XP clients.

For more information about Kerberos tickets, see Network authentication service protocols.

2. For information about domain logon support from iSeries NetServer, see iSeries NetServer domain logon support.

PCs can access and benefit from iSeries NetServer without additional software. However, if you need to administer iSeries NetServer properties from your PC client, you must install the Network feature of the iSeries Navigator function in iSeries Access for Windows.

Note: To configure iSeries NetServer file and print sharing capabilities, see these instructions:

- iSeries NetServer file shares.
- iSeries NetServer print shares.

Additional configuration instructions are available at [Get started with iSeries NetServer](#).

Configure iSeries NetServer

The following iSeries configuration is necessary if users in your network will be using file and print sharing.

Note:

- The following instructions assume that you have TCP/IP installed and configured on your iSeries server. If you do not, follow the instructions in “Prerequisites to install iSeries Access for Windows on the iSeries server” on page 6 and “Configure TCP/IP on the iSeries server” on page 10.
- The following configuration instructions require you to already have access to a PC that has iSeries Navigator installed.

To configure your iSeries server for iSeries NetServer support with iSeries Navigator, do the following:

1. Use the iSeries NetServer wizard. To open the wizard, follow these steps:
 - a. Open a connection to **iSeries Navigator** on your iSeries server.
 - b. Expand **Network**.
 - c. Expand **Servers**.
 - d. Click on **TCP/IP**.
 - e. Right-click **iSeries NetServer** and click on **Configuration**.
2. Follow the prompts provided by the wizard.

Note: For additional information about iSeries NetServer configuration, see [iSeries NetServer](#).

- For easier management and resolution of TCP/IP addresses, add an entry for the iSeries NetServer to a Domain Name Server (DNS).

Note: Configuration instructions are located in the iSeries Navigator online help and Configure and connect your PC client.

- Changes made to your iSeries NetServer properties do not take effect until the next time iSeries NetServer is started. To start or stop iSeries NetServer:
 - Open a connection to **iSeries Navigator** on your iSeries server.
 - Expand **Network**.
 - Expand **Servers**.
 - Click on **TCP/IP**.
 - Right-click **iSeries NetServer** and click on **Start** or **Stop**.

Remove iSeries Access for Windows from the iSeries server

To save disk space or to remove features that you no longer use, you can decide to delete features from the iSeries server. Use this information to step you through the removal of iSeries Access for Windows.

- Sign on to the iSeries server with a user ID that has security officer (*SECOFR) authority.
- Type DLTLICPGM at the iSeries command prompt. Specify the following parameters and values, and use the defaults for the other parameters.

Parameter	Value
Product	5722XE1
Language for licensed program	The default value for this field is *ALL. If you want to remove a specific language, type xxxx, where xxxx is the national language version (NLV) identifier.

Note: Any optional programs for iSeries Access for Windows that you installed, will need to be uninstalled separately.

Set up the PC

Use this information to learn the steps to set up your PC for iSeries Access for Windows use, and to install iSeries Access for Windows on your PC.

Use this information to guide you through the steps necessary to install and configure iSeries Access for Windows on the PC. The system administrator must install and configure iSeries Access for Windows on the iSeries server before you can install it from the iSeries server.

Note: Only users with administrator authority can perform installations, service pack updates, and upgrades to new releases. You can use the Windows Scheduled tasks feature with remote access to allow your users to do installations, service pack updates, and upgrades without administrator privileges.

Related concepts

“Set up the server for iSeries Access for Windows” on page 5

Use this information to learn the steps to install iSeries Access for Windows and other required and optional programs on your iSeries server.

Prerequisites to set up the PC for iSeries Access for Windows

Before you set up your PC, verify that it meets the prerequisite requirements to use iSeries Access for Windows.

Verify that your PC meets the following requirements. For more information, see PC requirements (www.ibm.com/eservers/series/access/pcreq.html) .

Table 3. PC requirements — Processor, memory, and service pack level

Operating system	iSeries Access for Windows	iSeries Access for Windows with iSeries Navigator
Windows 2000	Pentium® 133 MHz and at least 64 MB	Pentium 850 MHz minimum and at least 256 MB (512 MB, or more, recommended)
Windows XP Professional	Pentium 233 MHz and at least 128 MB	Pentium 850 MHz and at least 256 MB (512 MB, or more, recommended)
Windows Server 2003, 32-bit PC	Pentium 133 MHz and at least 128 MB	Pentium 850 MHz and at least 256 MB (512 MB, or more, recommended)
Windows Server 2003, x64 Editions	Pentium 733 MHz and at least 192 MB	Pentium 850 MHz and at least 256 MB (512 MB, or more, recommended)

Note:

1. Microsoft Windows Server 2003 comes in several editions. The hardware requirements vary by edition. See Microsoft's Web site for base requirements information for all editions.
2. If you do not plan to use iSeries Navigator for anything other than managing your iSeries connections (adding, removing, and changing connection properties), it is recommended that you do not install the iSeries Navigator base component. Installing that component will result in higher memory usage when managing your iSeries connections.

Table 4. Other PC requirements

PC requirement	Value
Disk Space - Install	<ul style="list-style-type: none"> • Typical - 177 MB (approximately) • PC5250 User - 39 MB (approximately) • Full - 264 MB (approximately) • Custom - varies, depending on components installed
Adapter Card	A communications adapter card that supports TCP/IP.

Notes:

1. The Disk Space - Install values are approximate. For the exact values, see PC requirements (www.ibm.com/eservers/series/access/pcreq.html) .
2. You need 5 MB available on the drive where the Windows operating system is installed to accommodate temporary files that the iSeries Access for Windows setup program creates. If SSL is needed, you will need an additional 8 MB or a total of 13 MB.
3. Additional files are downloaded from the iSeries server when you use the File Systems function of iSeries Navigator.
4. Service packs require additional space.
5. The size for a **Full** installation could be different depending on whether plug-ins are in the installation search path.

For information on upgrading your PC operating system, see Upgrade Windows operating system.

Related information

Upgrade Windows operating system
Upgrade the operating system on your PC.

Set up TCP/IP on the PC

Use this information to configure TCP/IP on supported Windows operating systems.

TCP/IP must be correctly installed and configured before you try to connect to an iSeries server.

Notes:

1. This information assumes that you have TCP/IP configured on your iSeries server. If TCP/IP is not configured on your iSeries server, see "Configure TCP/IP on the iSeries server" on page 10.
2. Virtual private network (VPN) is an option for secure remote connections. VPN is supported on PCs running Windows 2000, Windows XP, or Windows Server 2003, and on iSeries servers with i5/OS V5R1 and later. For iSeries VPN information, see Virtual private networking.

Complete the following tasks to set up TCP/IP on the PC.

Install a network adapter or modem

In order to set up TCP/IP on your PC, you must have a network adapter or modem installed in your PC. If you will be connecting to the iSeries server over a LAN, then you will need a network adapter installed. If you will be connecting to the iSeries server using a serial line internet protocol (SLIP) or PPP connection from a remote location, then you will need to install a modem. For information about installing a network adapter or modem, see the manufacturer's documentation provided with the hardware. The manufacturer's documentation should also provide information about installing a driver for the hardware.

Install Dial-Up Networking on the PC

If you will be connecting to the iSeries server over a SLIP or PPP connection (using a modem), you need to install Dial-Up Networking and Remote Access Services on your PC. If you are connecting to your iSeries server over a LAN, or if you already have Dial-Up Networking installed on your PC, you can continue with "Verify TCP/IP configuration" on page 18. You can find the instructions to install Dial-up Networking and Remote Access Services at Microsoft's Web site:

1. Go to www.microsoft.com
2. Click **Search**
3. Enter Dial-Up Networking in the search field and press Enter to search.

Notes:

1. If you see an unwanted Dial-Up Networking, you might either have Internet Access, or you might need to change your Dial-Up Networking configuration.
2. To get full autodial support, you need to have Internet Explorer 2.x or higher installed. Within the properties of Internet Explorer, there is a setting called "Connect to the Internet as needed." This prompt enables or disables a setting called autodial feature for the TCP/IP stack.

Configure TCP/IP support on the PC

This topic provides the steps that are necessary to configure the Microsoft TCP/IP support that is supplied with the Windows operating system.

If you are not using a domain name server (DNS), see Add the server name to the HOSTS file.

The driver required to support TCP/IP over a twinaxial connection is not shipped with iSeries Access for Windows. If you want to use a twinaxial connection, see *Configure TCP/IP over twinaxial connections*.

Configure TCP/IP on Windows operating systems:

Steps to configure Windows clients for TCP/IP.

To install and configure the TCP/IP network protocol on Windows client:

1. Click **Start** → **Settings** → **Control Panel**.
2. On the control panel, double-click **Network and Dial-Up Connections**.
3. Right-click **Local Area Connection**.
4. Click **Properties**. If **Internet Protocol (TCP/IP)** does not appear in the list, do the following:
 - a. Click **Install**.
 - b. Select **Protocol**, and then click **Add**.
 - c. Select **Internet Protocol (TCP/IP)**.
 - d. Click **OK**. This returns you to the Local Area Connection Properties window.
5. Select **Internet Protocol (TCP/IP)**, and then click on **Properties**.
6. Select **Using the Following IP Address**. Check with your network administrator to determine the correct settings for this tab. If your PC does not automatically obtain IP and DNS addresses, do the following:
 - a. Enter the IP address of your PC (for example, 199.5.83.205).
 - b. Enter the subnet mask (for example, 255.255.255.0).
 - c. Enter the default gateway (for example, 199.5.83.1).
 - d. Enter the preferred DNS server (for example, 199.5.100.75).
 - e. Enter the alternate DNS server (for example, 199.5.100.76).
7. If you are using a Windows Internet Name Server, click the **Advanced** tab, select **WINS Address**, and do the following:
 - a. Click **Add**.
 - b. Enter the primary WINS server (for example, 199.5.83.205).
 - c. Enter the secondary WINS server (for example, 199.5.83.206).
 - d. The remaining settings should remain as the defaults.
8. Click **OK** on the **Local Area Connection Properties** window. It is not necessary to restart your PC.

Add the server name to the HOSTS file:

Identify server to the network.

If you are not using a domain name server, you need to add the iSeries server name with which you want to communicate to the HOSTS file. Also, add the iSeries NetServer server name to the LMHOSTS file if you are relying on iSeries NetServer for file and print serving. For instructions on updating your LMHOSTS file, see *Configure the PC for iSeries NetServer Use*.

To create or change the HOSTS file, do the following:

Note: The directory in the following examples could be `\winnt\system32` instead of `\windows\system32` for some Windows operating systems.

1. Open a command prompt.
2. Change to the directory that should contain the HOSTS file, the directory in which the HOSTS file must remain. For example:
`c:\>cd \windows\system32\drivers\etc`

3. **Optional:** If a file named HOSTS already exists in this directory, skip this step. Create a file named HOSTS by copying the sample file (supplied by the Windows operating system). The file is in the same directory and is called hosts.sam.

For example:

```
c:\windows\system32\drivers\etc>copy hosts.sam hosts
```

4. Edit the HOSTS file. For example:

```
c:\windows\system32\drivers\etc>edit hosts
```

Follow the instructions in the HOSTS sample file to add the IP address and name of the iSeries server to which you want to connect.

5. Save the HOSTS file.

Note: For PC5250, if you do not use a name server or hosts table, you cannot start the 5250 emulator delivered with iSeries Access for Windows. The left bottom corner of your emulation display indicates a 657 communication error (*Resolving TELNET 5250 server host-domain name*).

You can choose to use a HOSTS file if you have only a few machines using TCP/IP. This requires that you maintain an up-to-date list on each computer. When an iSeries address changes, you must change the HOSTS file entry if one exists.

Configure the PC for iSeries NetServer Use:

This information allows you to configure the PC as an IBM iSeries Support for Windows Network Neighborhood (iSeries NetServer) client. It also provides information about configuring iSeries NetServer file and print shares and updating a LMHOSTS file.

Installing iSeries Access for Windows over a network can be done using iSeries NetServer. This support does not require any additional software on your PC. iSeries NetServer takes advantage of the integrated file and print sharing capability in Windows operating systems, enabled using the X/Open Company industry-standard Server Message Block (SMB) protocol.

Prerequisites to configure the PC for iSeries NetServer use

In order to configure the PC for iSeries NetServer use, you must have:

- TCP/IP configured on both the iSeries server and the PC (see “Configure TCP/IP on the iSeries server” on page 10 and “Set up TCP/IP on the PC” on page 14).
- iSeries NetServer configured on the iSeries server (see “Configure iSeries NetServer on the iSeries server” on page 10).

Configure the PC as an iSeries NetServer Client

To configure your PC for iSeries NetServer support, the steps vary depending on which operating system you are using. Go to the section below for your operating system.

Check Windows 2000 settings::

1. From the Windows desktop, right-click **My Network Places**. Then, click **Properties**.
2. Click **Network identification**. Make sure that you have a unique computer name and a valid domain (workgroup) name configured (preferably the same one as the iSeries NetServer). Close this dialog.
3. Right-click the **Local Area Connection** icon and click on **Properties**. Make sure that the TCP/IP Protocol is there and is configured properly.
4. Continue with “Check TCP/IP Support” on page 17.

Check Windows XP/Windows Server 2003 settings:

1. From the Windows desktop, right-click **My Network Places**. Then, click **Properties**.

2. Right-click **Local Area Connection** and click on **Properties**. Make sure that the TCP/IP Protocol is there and is configured properly.
3. Continue with "Check TCP/IP Support."

Check TCP/IP Support:

1. Open a command prompt.
2. There are two ways to check the connectivity from the PC client to iSeries NetServer. Type the following to make sure that your PC can communicate with the iSeries NetServer.

```
NBTSTAT -a iSeries-NetServer-server-name
```

If the NBTSTAT command fails, verify that your IP address resolution strategy is correct by trying the following:

```
PING iSeries-NetServer-server-name
```

3. If your results fail, try adding an entry to the iSeries NetServer to the PC's local LMHOSTS file. Do the following:
 - a. Look in the \WINDOWS\system32\drivers\etc directory for the LMHOSTS file.

Notes:

- The directory could be \WINNT\system32 instead of \WINDOWS\system32, depending on your operating system.
- If you cannot find the LMHOSTS file in the specified directory, you have two options:
 - Create a new LMHOSTS file
 - Copy or rename LMHOSTS.SAM in that same directory to LMHOSTS

Complete instructions are provided in the LMHOSTS.SAM file.

- b. Type the following to reload PC cache from the updated LMHOSTS file.

```
NBTSTAT -R
```
4. Do one of the following:
 - If you are using Windows 2000, continue to "Find iSeries NetServer and shared resources from Windows 2000."
 - If you are using Windows XP, continue to "Find iSeries NetServer and shared resources from Windows XP/Windows Server 2003."

Find iSeries NetServer and shared resources from Windows 2000:

1. From the Windows desktop, right-click **My Network Places**.
2. Select **Search for Computers**.
3. Fill in the NetServer name and select **Search Now**.

Find iSeries NetServer and shared resources from Windows XP/Windows Server 2003:

1. From the Windows desktop, right-click **My Network Places**.
2. Select **Search for Computers**.
3. Fill in the NetServer name and select **Search**.

Configure iSeries NetServer file and print shares:

To configure iSeries NetServer file and print sharing capabilities, see these instructions:

- iSeries NetServer file shares.
- iSeries NetServer print shares.

Additional configuration instructions are available at [Get started with iSeries NetServer](#).

Configure TCP/IP over twinaxial connections:

Obtain a twinaxial driver.

The driver required to support TCP/IP over a twinaxial connection is not shipped with iSeries Access for Windows. You must download it from the following Web site:

<http://www.networking.ibm.com/nhd/webnav.nsf/pages/525:525home.html>

If you are using TCP/IP over a twinaxial connection, see Information APAR III1022 for the support statement regarding iSeries Access for Windows on this type of connection.

Verify TCP/IP configuration

You can verify that TCP/IP is set up correctly on your PC by issuing a PING command to the iSeries server:

1. Open a command prompt.
2. Type PING *system* where *system* is the name of the iSeries server that you want to connect to.
3. If your TCP/IP configuration is correct, you should see reply messages from the iSeries server. If you do not see these reply messages, here are some possible reasons why the PING command failed:
 - You might be trying to PING the wrong address. Check the address of the iSeries server.
 - You might have an incorrect IP address listed for the iSeries server in your HOSTS file or DNS entry. This occurs only when you try to PING an iSeries server by name (as opposed to the IP address). If so, try PING *nnn.nnn.nnn.nnn* where *nnn.nnn.nnn.nnn* is the IP address of the iSeries server that you want to connect to. You can obtain the IP address of the iSeries server from your system administrator. If that works, update your HOSTS file or DNS entry with the correct address.
 - Incorrect LAN adapter address is set in the adapter properties on the PC.
 - There is no physical connection to the iSeries server.
 - The iSeries server or network name is not correct.
 - TCP/IP is not configured correctly on the PC.
 - TCP/IP is not installed or configured correctly, or is not started, on the iSeries server. These problems need to be addressed by the system administrator.
 - The iSeries server is down.
 - The iSeries server is located behind a firewall that will not allow you to PING. Try `telnet systemname`.
 - If none of the above explain your problem, restart and go through the configuration process again.

Configure the PC for iSeries NetServer Use

This information allows you to configure the PC as an IBM iSeries Support for Windows Network Neighborhood (iSeries NetServer) client. It also provides information about configuring iSeries NetServer file and print shares and updating a LMHOSTS file.

Installing iSeries Access for Windows over a network can be done using iSeries NetServer. This support does not require any additional software on your PC. iSeries NetServer takes advantage of the integrated file and print sharing capability in Windows operating systems, enabled using the X/Open Company industry-standard Server Message Block (SMB) protocol.

Prerequisites to configure the PC for iSeries NetServer use

In order to configure the PC for iSeries NetServer use, you must have:

- TCP/IP configured on both the iSeries server and the PC (see “Configure TCP/IP on the iSeries server” on page 10 and “Set up TCP/IP on the PC” on page 14).
- iSeries NetServer configured on the iSeries server (see “Configure iSeries NetServer on the iSeries server” on page 10).

Configure the PC as an iSeries NetServer Client

To configure your PC for iSeries NetServer support, the steps vary depending on which operating system you are using. Go to the section below for your operating system.

Check Windows 2000 settings:

1. From the Windows desktop, right-click **My Network Places**. Then, click **Properties**.
2. Click **Network identification**. Make sure that you have a unique computer name and a valid domain (workgroup) name configured (preferably the same one as the iSeries NetServer). Close this dialog.
3. Right-click the **Local Area Connection** icon and click on **Properties**. Make sure that the TCP/IP Protocol is there and is configured properly.
4. Continue with “Check TCP/IP Support” on page 17.

Check Windows XP/Windows Server 2003 settings

1. From the Windows desktop, right-click **My Network Places**. Then, click **Properties**.
2. Right-click **Local Area Connection** and click on **Properties**. Make sure that the TCP/IP Protocol is there and is configured properly.
3. Continue with “Check TCP/IP Support” on page 17.

Check TCP/IP Support

1. Open a command prompt.
2. There are two ways to check the connectivity from the PC client to iSeries NetServer. Type the following to make sure that your PC can communicate with the iSeries NetServer.

```
NBTSTAT -a iSeries-NetServer-server-name
```

If the NBTSTAT command fails, verify that your IP address resolution strategy is correct by trying the following:

```
PING iSeries-NetServer-server-name
```
3. If your results fail, try adding an entry to the iSeries NetServer to the PC's local LMHOSTS file. Do the following:
 - a. Look in the \WINDOWS\system32\drivers\etc directory for the LMHOSTS file.

Notes:

- The directory could be \WINNT\system32 instead of \WINDOWS\system32, depending on your operating system.
- If you cannot find the LMHOSTS file in the specified directory, you have two options:
 - Create a new LMHOSTS file
 - Copy or rename LMHOSTS.SAM in that same directory to LMHOSTS

Complete instructions are provided in the LMHOSTS.SAM file.

- b. Type the following to reload PC cache from the updated LMHOSTS file.

```
NBTSTAT -R
```
4. Do one of the following:
 - If you are using Windows 2000, continue to “Find iSeries NetServer and shared resources from Windows 2000” on page 17.
 - If you are using Windows XP, continue to “Find iSeries NetServer and shared resources from Windows XP/Windows Server 2003” on page 17.

Find iSeries NetServer and shared resources from Windows 2000

1. From the Windows desktop, right-click **My Network Places**.
2. Select **Search for Computers**.
3. Fill in the NetServer name and select **Search Now**.

Find iSeries NetServer and shared resources from Windows XP/Windows Server 2003

1. From the Windows desktop, right-click **My Network Places**.
2. Select **Search for Computers**.
3. Fill in the NetServer name and select **Search**.

Configure iSeries NetServer file and print shares

To configure iSeries NetServer file and print sharing capabilities, see these instructions:

- iSeries NetServer file shares.
- iSeries NetServer print shares.

Additional configuration instructions are available at [Get started with iSeries NetServer](#).

Install iSeries Access for Windows on the PC

Use this information to learn the steps to install iSeries Access for Windows on your PC.

You can install iSeries Access for Windows on a PC from an iSeries server using iSeries NetServer, from a CD-ROM, or from a Windows network drive. iSeries Access for Windows does not support installation from diskettes.

Attention: iSeries Access for Windows works with InstallShield during setup. Antivirus programs can interfere with the operation of InstallShield. You should disable any antivirus programs that are running on your PC before you install iSeries Access for Windows.

Considerations:

- Manual intervention is required to install the AFP and SCS printer drivers components. See the “Install printer drivers manually” on page 21 topic for details.
- Not all of the available installation files reside in the same directory. To find the required files, iSeries Access for Windows searches the subfolders of the ProdData directory. See “Path discovery for iSeries Access for Windows installations” on page 22 for more information.
- To install the same functions on several PCs, you might consider using the silent install feature of iSeries Access for Windows. For information about silent installation, see “Perform a silent installation of iSeries Access for Windows” on page 25.
- iSeries Access for Windows supports 64-bit versions of ODBC, OLE DB, and Secure Sockets Layer (SSL) components. The 64-bit versions do not appear as separate components, but are simply included with the 32-bit versions of these components when installed on 64-bit hardware. If you uninstall the 32-bit versions, the 64-bit versions will also be uninstalled.
- iSeries Access for Windows supports a 32-bit and 64-bit version of the AFP Printer Driver, however, the 32-bit version of the AFP Printer Driver does not install on a 64-bit version.
- If you are installing onto 64-bit hardware, you cannot install the SCS Printer Driver.
- For the selection of the components that you want to install, consider that there are some components of iSeries Access for Windows that do not need the Required Programs component. They include User’s Guide, Lotus® 1-2-3® File Format Support, IBM Toolbox for Java™, and Programmer’s Toolkit Headers, Libraries and Documentation. iSeries Access for Windows will not automatically check for new Service Packs or Upgrades to be installed on the PC, unless Required Programs was installed.

- iSeries Access for Windows does not install MDAC like it did in earlier releases. Be aware that the iSeries Access ODBC driver and iSeries Access for Windows OLE DB provider do, however, have some specific requirements on the MDAC level on your PC. The Windows operating systems that are supported by this release of iSeries Access for Windows already have the required MDAC level.

Required MDAC levels:

- iSeries Access ODBC driver - MDAC 2.5 or later for connection pooling and MTS support
- iSeries Access OLE DB provider - MDAC 2.5 for all functions

If MDAC 2.5 or later is not installed, iSeries Access for Windows will not allow the OLE DB component to be installed. If you have a Typical install with an earlier version of iSeries Access for Windows, and then you want to upgrade to V5R4M0, the OLE DB component will be deleted from your PC if MDAC 2.5 is not installed before the upgrade. You can download MDAC 2.5 or later from this Microsoft Web Site:

<http://www.microsoft.com/data>  .

- To install iSeries Access for Windows on a PC that is running Microsoft Windows Terminal Server Edition or Terminal Services, follow the install instructions in Information APAR II11373. For information about obtaining APARs, see Information APARs .
- Prior to installing the .NET Managed Provider, the .NET Framework must first be on your PC. See www.msdn.com  for instructions on downloading and installing the .NET Framework.

Complete the tasks appropriate to your circumstances to install iSeries Access for Windows on the PC.

Install printer drivers manually

Installation considerations for AFP and SCS Printer Drivers.

| When Driver Signing is set to Warn or Block and Windows encounters a file that has not been digitally signed, the Windows operating system enforces an interrupt of installation programs and issues a Windows Logo Testing warning message. In some previous versions of Windows operating systems, you were not required to take any action because Windows allowed installation programs to bypass the setting for Driver Signing Options. Now, when performing a Custom installation, a Full installation, or an Upgrade of iSeries Access for Windows (with the selection of the AFP or SCS Printer Driver components), you must take action because the AFP and SCS printer drivers components are not digitally signed by Microsoft.

If the AFP or SCS Printer Driver components are not needed, choose a Custom Install instead of a Full Install, or a Selective Upgrade instead of a Basic Upgrade, and de-select the AFP and SCS Printer Driver components. Typical and PC5250 User installation types do not include Printer Drivers.

Prior to an installation or upgrade on a 32-bit Windows Operating system, if you want to add or update the Printer Drivers automatically you can do the following:

- Set Driver Signing Options to Ignore (instead of Warn or Block) before the installation or upgrade, and then reset the option after the installation using this path: **Start** → **Settings** → **Control Panel** → **System** → **Hardware** → **Driver Signing Options**

After an installation or upgrade on a 32-bit Windows operating system, if Driver Signing is set to Warn or Block, Printer Driver files will have been copied to a subdirectory under the Client Access installation directory.

On 64-bit operating systems, only the AFP printer driver is available for installation. Regardless of the Driver Signing setting, files will be copied to a subdirectory under the Client Access installation directory. The printer driver is not automatically added or updated.

On both 32-bit and 64-bit operating systems, if the files are copied to a subdirectory under the Client Access installation subdirectory, as described above, you will need to add or update your Printer Driver using Microsoft’s directions in their help text. As prompted, if you used the default installation path, specify one of the following directory locations for your printer driver:

- For AFP: c:\Program Files\IBM\Client Access\CWBAFP
- For SCS: c:\Program Files\IBM\Client Access\CWBSCS

Path discovery for iSeries Access for Windows installations

Since the installation files do not all reside in the same directory, the iSeries Access for Windows installation program uses a built-in path discovery function. Path discovery navigates back through the source directory until it reaches the ProdData directory. It searches through all of the subdirectories for the various installation files. You should map your drive to the iSeries server QIBM share point (`\\NetServerName\QIBM`) so that the various directory paths are available to the path discovery function. This will make all installable components available to the install program. However, even if you do not have all of these directories in your directory path, you can still install most iSeries Access for Windows components.

Path discovery searches the following directories:

Table 5. Function directories

Function	Location
iSeries Access for Windows components	\ProdData\Access\Windows\Install\Image
Secondary languages	\ProdData\Access\Windows\Mri29xx

Table 6. Plug-in directories

iSeries Access for Windows plug-ins	Location
IBM plug-ins	\ProdData\OpNavPlugin
Third party plug-ins	\UserData\OpNavPlugin

Note: You can create a share point to the `\\NetServer\QIBM\ProdData\Express\Install\Image` directory as long as your users do not require secondary languages or plug-ins

Install iSeries Access for Windows from iSeries NetServer

Install iSeries Access for Windows from iSeries NetServer

You must have iSeries Access for Windows installed on your iSeries before following these instructions. If you have not already done so, follow the steps in “Steps to Install iSeries Access for Windows on the iSeries server” on page 8. You must also have iSeries NetServer configured on your iSeries server and your PC configured to use iSeries NetServer before following these instructions. If you have not already done so, follow the steps in “Configure iSeries NetServer on the iSeries server” on page 10 and “Configure the PC for iSeries NetServer Use” on page 16 to set up iSeries NetServer.

To install iSeries Access for Windows from iSeries NetServer use the following instructions that might vary, depending on your Windows operating system:

1. From the Windows desktop, right-click the **My Network Places** icon, and then click **Search for Computers**.

2. Type in the iSeries NetServer name that you want to use to install iSeries Access for Windows and click **Find Now**.

Note: If you cannot find iSeries NetServer by name, type in the IP address instead of the iSeries NetServer name. To find the IP address, perform a PING to the iSeries server as follows:

- a. Open a DOS window or Command Prompt.
 - b. Type PING system where system is the name of the iSeries server that you wish to connect to.
3. Double-click the computer name when it appears. This starts the Windows Explorer.
 4. Double-click **QIBM** → **ProdData** → **Access** → **Windows** → **Install** → **Image** → **Setup.exe** to start the setup program.
 5. Once the iSeries Access for Windows setup program begins, follow the instructions and online help in the program.

Notes:

- If the system administrator creates his own share point (directory shareable by remote users) to the Image directory, you will **not** be able to install plug-ins and secondary languages that are installed on the iSeries server during the iSeries Access for Windows installation. See the online help and Information Center for more information about plug-ins.
- If your administrator plans to store service packs or new releases in a different location, or if you want to change the install source for automatic service pack and release upgrades, use the **Service** page of **iSeries Access for Windows Properties** after the installation completes. If you are installing iSeries Access for Windows for the first time, the CheckVersion function will automatically receive new service packs and new releases from the drive and directory where the initial install occurred.

Install iSeries Access for Windows from CD-ROM

To install iSeries Access for Windows from the iSeries Setup and Operations CD-ROM, *SK3T-4098-02*, do the following:

1. If you are using a Windows Server 2003, from a command line, run the command: `chgusr /install`.
2. Insert the CD-ROM into the CD-ROM drive.
3. If your CD-ROM drive is set to automatically run programs, follow these steps:
 - a. Click **Install iSeries Access for Windows**.
 - b. Go to step 5.
4. If your CD-ROM drive is **not** set to automatically run programs, follow these steps:
 - a. Go to the root directory of the CD-ROM and double-click **launch.exe**.
 - b. Click **Install iSeries Access for Windows**.
5. Once the iSeries Access for Windows setup program begins, follow the instructions and online help in the program.
6. If you are using a Windows Server 2003, after the setup program finishes, from a command line, run the command: `chgusr /execute`.

Notes:

1. During an iSeries Access for Windows installation, you cannot install plug-ins, and secondary languages from the iSeries server. After the CD install completes, you can use Selective Setup to add these components. You can access Selective Setup by clicking **Start** → **Programs** → **Selective Setup**. When Selective Setup is run, you must specify the appropriate iSeries directory. For information about determining the appropriate directory, see Path discovery for iSeries Access for Windows installations.

2. To change the install source for automatic Service Pack and release upgrades, use the **Service** page of **iSeries Access for Windows Properties**. If you are installing iSeries Access for Windows for the first time and you do not update the install source, CheckVersion checks the CD-ROM drive for service packs and upgrades. If you are upgrading iSeries Access for Windows and if CheckVersion is configured to check a certain directory, CheckVersion checks the specified directory and does not check the CD-ROM.
3. See the online help and Information Center for more information about plug-ins.

Install iSeries Access for Windows from a Windows network drive

Install from a Windows network drive

1. Map a drive to the location where the installation image is located.
2. Double-click **setup.exe** to start the setup program.
3. Once the iSeries Access for Windows setup program begins, follow the instructions and online help in the program.

Your administrator can use the tailored installation function to copy all or part of iSeries Access for Windows to a network drive on a Windows system. For more information about tailored installations, see "Create and use a tailored installation image of iSeries Access for Windows."

Notes:

1. During installation of iSeries Access for Windows from a Windows network drive, you cannot install plug-ins and secondary languages from the iSeries server. These products and features are not packaged with iSeries Access for Windows. After the installation completes, you can use Selective Setup to add these components. When Selective Setup is run, you must specify the appropriate directory. The default directory is the last directory that was used in install or selective install.
2. To get plug-ins and secondary languages, select the server that has these components as your source directory during Selective Setup.
3. If your administrator plans to store service packs or new releases in a different location or if you want to change the install source for automatic Service Pack and release upgrades, use the Service page of iSeries Access for Windows Properties after the installation completes. If you are installing iSeries Access for Windows for the first time, CheckVersion automatically receives new service packs and new releases from the drive and directory where the initial install occurred.
4. See the online help and Information Center for more information about plug-ins and service.

Install iSeries Access for Windows on multiple PCs

There are several ways to install iSeries Access for Windows on multiple PCs without going through all of the steps of your initial installation and setup. Additionally, you can restrict users' access to functions by selecting which components to include in an installation.

Note:

1. For information about install considerations, see "Install iSeries Access for Windows on the PC" on page 20.
2. Only users with administrator authority can perform installations, service pack updates, and upgrades to new releases. You can use the Windows Scheduled Tasks feature with remote access to allow your users to do installations, service pack updates, and upgrades without administrator privileges.

The following items describe several common installation methods.

Create and use a tailored installation image of iSeries Access for Windows:

Create a tailored installation image for installations across your network.

You might want to control which iSeries Access for Windows components your users can install. One way to do this is by excluding selected components from an installation image, and then distributing this tailored installation image to your users. The Tailored Installation Image wizard provides a simple interface for this function.

Start the Tailored Installation Image wizard

You can start the tailored installation wizard from the iSeries Setup and Operations CD, or by navigating to the installation image directory, \QIBM\ProdData\Access\Windows\Install\Image, and entering `cwbinimg`.

Service the installation image

Any tailored installation images are not updated when Program Temporary Fixes (PTFs) are applied to or removed from the iSeries server. You must re-create the installation image to get service pack updates. Alternatively, you can combine the service pack directly with your existing tailored installation image.

For instructions, go to the iSeries Access Web site (<http://www.ibm.com/eserver/series/access>) . Click on the latest service pack. Read the instructions in the Downloads.txt file.

Distribute the installation image

The wizard allows you to specify where you want to create the tailored installation image. This location must be an empty directory, (you cannot overwrite a previous installation image) and must not be the root directory. Also, only complete installation images contain the program that creates tailored installation images. The wizard is not copied onto the user's PCs. You can also copy the tailored image to a CD-ROM. iSeries Access for Windows Setup will run automatically when the CD-ROM is inserted into the CD-ROM drive.

Note: If your iSeries server has multiple iSeries Access for Windows secondary languages, you can use any of the installed secondary languages, or the primary language on the iSeries server, as the primary language for the new installation image. Secondary languages are not available if you are running the wizard from the CD, because the CD will not contain any secondary languages.

Create your own CD-ROM:

Create a CD-ROM to install iSeries Access for Windows.

- | You can create your own CD-ROM by creating a tailored installation image and then writing the image to a CD.
- | For details and more information, see "Create and use a tailored installation image of iSeries Access for Windows" on page 24.
- | Also see "Install iSeries Access for Windows from CD-ROM" on page 23 for related information.

Perform a silent installation of iSeries Access for Windows:

Create a response file that contains a record of your responses to prompts during an installation. You can then use this response file to control duplicate installations that do not require any user interaction.

Silent installation eliminates the need for any user interaction during the iSeries Access for Windows set up process. A response file provides all installation information so that no dialog boxes display while installing iSeries Access for Windows.

The response file contains the installation options that the system would normally prompt you for during the installation process.

Silent install indicator

Silent install has a progress indicator. The Silent Install Indicator is an icon in the task tray which will appear when a silent install is launched, and remain in the task tray as long as the install is executing. Passing the mouse over the icon will cause the Silent Install Indicator to display the percent of the install that is complete. The Silent Install Indicator can also be expanded to expose more information. When the install completes successfully, the icon will disappear from the task tray. If the install were to fail, the icon will remain and a small red triangle will appear on the icon to indicate the failure. Click on the red triangle to see the failure message.

Notes:

1. If the Silent Install Indicator displays a given percentage of completion longer than you would expect, you might want to check the log file for errors.
2. Often the best way to debug a silent install failure is to start the install in non-silent mode on the user PC, and see if there are any unexpected dialogs that appear prior to the Component Confirmation panel. Most silent install failures occur due to unexpected dialogs that appear prior to actual component installation file transfers.

Differences between normal and silent installations

The following table illustrates the differences between a normal and silent installation by comparing how the two types of installations handle various conditions that commonly arise during the installation process.

Condition	During a normal installation...	During silent and recorded installations...
Attempt to install a component that is restricted (by policies, dependencies, or some other restriction), or that is incompatible with a product that is already installed.	A dialog displays listing all of the components that are restricted due to these conditions. The component is not installed.	The component is not installed.
An error occurs.	Error messages display.	Error messages display during a recorded installation, but not during a silent installation. A negative number is written to the silent installation log file. This indicates that an error occurred. If you are having problems running silent installations, you might want to try running the installation interactively to rule out the possibility that the problems you are encountering are not related to silent mode.

Performing a silent installation

To perform a silent installation, see the following information.

Create response files for iSeries Access for Windows installations:

A response file records the selections made in response to the prompts in the installation process. During a silent installation, the setup program will use the response file to get the information necessary to complete the installation.

To create a response file, follow these steps:

1. At the command line in the iSeries Access for Windows installation image directory on a PC, type:

```
setup -r -f1d:\dir\file.iss
```

to run an installation, and record the responses.

- *-f1* is an optional parameter used to indicate an alternate response file name. If you do not use this parameter, then setup.iss records all of the installation choices. Setup.iss resides in the Windows directory, for example, C:\Windows or C:\Winnt depending on your operating system.
- *d:\dir* is the drive and directory where you want to create the response file. If you use the *-f1* parameter, then you must specify the drive and directory along with the response file name that you want to create.
- *file.iss* is the name of the response file that you want to create. The file extension must always be iss.

2. Complete the setup program, providing the responses you want to use during the silent installations.

After the installation is complete, the iss file that is created will look somewhat like this:

Example: Response file (setup.iss):

This response file is from a Custom installation with all the components selected. Your file will differ depending on the installation type, the components you select, and your national language version.

Notes:

1. BootOption=3 in the sample response file. This means that the PC automatically restarts when the installation has completed. If you do not want this to happen, reset to BootOption=0.
2. Read the Chapter 4, "Code license and disclaimer information," on page 43 for important legal information.

```
[InstallShield Silent]
Version=v5.00.000
File=Response File
[File Transfer]
OverwriteReadOnly=NoToAll
[DlgOrder]
Dlg0=SdWelcome-0
Count=9
Dlg1=SdLicense-0
Dlg2=SdOptionsButtons-0
Dlg3=SdAskDestPath-0
Dlg4=CwbComponentDlg-0
Dlg5=SdShowDlgEdit1-0
Dlg6=SdStartCopy-0
Dlg7=SdAskOptions-0
Dlg8=SdFinishReboot-0
[SdWelcome-0]
Result=1
[SdLicense-0]
Result=1
[SdOptionsButtons-0]
Result=103
[SdAskDestPath-0]
szDir=C:\Program Files\IBM\Client Access
Result=1
[CwbComponentDlg-0]
```

CAOptional-type=string
 CAOptional-count=3
 CAOptional-0=CAOptional\DirUpdate
 CAOptional-1=CAOptional\IRC
 CAOptional-2=CAOptional\OUG
 Unity-type=string
 Unity-count=19
 Unity-0=Unity\Base
 Unity-1=Unity\BasicOp
 Unity-2=Unity\JobMan
 Unity-3=Unity\SysConfig
 Unity-4=Unity\Network
 Unity-5=Unity\IntSrvAdm
 Unity-6=Unity\Security
 Unity-7=Unity\UserGroups
 Unity-8=Unity\Database
 Unity-9=Unity\USQL
 Unity-10=Unity\UTS
 Unity-11=Unity\FileSys
 Unity-12=Unity\Backup
 Unity-13=Unity\Commands
 Unity-14=Unity\PackProd
 Unity-15=Unity\Monitors
 Unity-16=Unity\LogSys
 Unity-17=Unity\AFPMAN
 Unity-18=Unity\Admin
 DataAccess\FileTransfer-type=string
 DataAccess\FileTransfer-count=2
 DataAccess\FileTransfer-0=DataAccess\FileTransfer\DataXfer
 DataAccess\FileTransfer-1=DataAccess\FileTransfer\Excel
 DataAccess-type=string
 DataAccess-count=5
 DataAccess-0=DataAccess\FileTransfer
 DataAccess-1=DataAccess\ODBC
 DataAccess-2=DataAccess\OLEDB
 DataAccess-3=DataAccess\MP
 DataAccess-4=DataAccess\WK4
 Emulators\Standard-type=string
 Emulators\Standard-count=2
 Emulators\Standard-0=Emulators\Standard\Base
 Emulators\Standard-1=Emulators\Standard\PdfPdt
 Emulators-type=string
 Emulators-count=1
 Emulators-0=Emulators\Standard
 SSL-type=string
 SSL-count=1
 SSL-0=SSL\SSL128bit
 PrinterDrivers-type=string
 PrinterDrivers-count=2
 PrinterDrivers-0=PrinterDrivers\AFP
 PrinterDrivers-1=PrinterDrivers\SCS
 Toolkit-type=string
 Toolkit-count=3
 Toolkit-0=Toolkit\Base
 Toolkit-1=Toolkit\VBW
 Toolkit-2=Toolkit\TJ
 Component-type=string
 Component-count=18
 Component-0=Install
 Component-1=Base
 Component-2=Ub
 Component-3=CAOptional
 Component-4=Unity
 Component-5=UECL
 Component-6=DataAccess
 Component-7=AFPViewer
 Component-8=JRE

```

Component-9=JAVATB
Component-10=Emulators
Component-11=SSL
Component-12=PrinterDrivers
Component-13=OCI
Component-14=OpCon
Component-15=UToo
Component-16=Toolkit
Component-17=EZSetup
Result=1
[SdShowDlgEdit1-0]
szEdit1=IBM iSeries Access for Windows
Result=1
[SdStartCopy-0]
Result=1
[Application]
Name=Client Access
Version=CurrentVersion\Selectively_Installable_Components\EZ-Setup
Company=IBM
Lang=0009
[SdAskOptions-0]
Component-type=string
Component-count=2
Component-0=Add program folder shortcut to desktop.
Component-1=Show the Welcome Wizard when I restart my computer.
Result=1
[SdFinishReboot-0]
Result=1
BootOption=3

```

Start a silent installation:

Silent installations use a response file (file.iss) for the responses to prompts during the installation process. This eliminates the need for any user interaction during the installation process, and allows you to quickly and easily copy duplicate installations across your network. Information about the status of the silent installation can be recorded in a log file (file.log).

To start a silent installation, type the following at a command prompt in the iSeries Access for Windows installation image directory:

```
setup -s -f1d:\dir\file.iss -f2d:\dir\file.log
```

where:

- -f1 is an optional parameter where you can specify the response file (**file.iss**) to use. If you do not use this parameter, then the installation attempts to use a default response file named setup.iss. It looks for this file in the directory containing setup.exe.
d:\dir is the drive and directory that contains the response file that you want to use. If you use the -f1 parameter, then you must specify the drive and directory along with the response file name.
- -f2 is an optional parameter where you can specify the location and name for the log file that the silent installation creates. If you do not use this parameter, the installation creates a log file named setup.log and places it in the directory containing setup.exe.
d:\dir is the drive and directory that contains the log file. If you use the -f2 parameter, then you must specify the drive and directory along with the log file name. **file.log** is the name of the log file that you want to create.

Return codes for silent installations:

To see if your silent installation was successful, look at the return codes in the log file. If you receive a return code of 0, the installation was successful. If the return code was not 0, take any action necessary to resolve the problem. You specified the name and location of the log file when you started the silent installation. You can also see additional information about failures in silent.txt in the target directory, or

in cwbsilent.txt in the windows directory (Windows or Winnt) if the target directory is not yet set.

Return code	Description
0	Success
-1	General error
-2	Invalid mode
-3	Required data not found in the Setup.iss file
-4	Not enough memory available
-5	File does not exist
-6	Cannot write to response file
-7	Unable to write to the log file
-8	Path to the InstallShield silent response file is not valid
-9	Not a valid list type (string or number)
-10	Data type is not valid
-11	Unknown error during set up
-12	Dialog boxes are out of order
-51	Cannot create the specified folder
-52	Cannot access the specified file or folder
-53	A selected option is not valid

SMS switch:

You can include the installation in a .bat file containing multiple commands. Use the SMS switch to prevent the Setup.exe from closing before the setup is complete.

You might want to invoke the installation image from a .bat file so that you can run additional commands after the completion of a silent install, and prior to a restart. Use the SMS switch to prevent setup.exe from closing before the installation is complete. This will cause the .bat file to wait until the setup is complete before moving to the next statement in the .bat file. You can use the SMS switch in conjunction with both silent and non-silent installations.

To use the SMS switch as part of a silent installation:

1. Complete the steps to create a response file in "Create response files for iSeries Access for Windows installations" on page 26.
2. To start the silent installation and SMS switch, type the following at a command prompt in the iSeries Access for Windows installation image directory:

```
setup.exe -SMS -s -f1d:\dir\file.iss -f2d:\dir\file.log
```

where *-f1* is an optional parameter where you can specify the response file (file.iss) to use, and *-f2* is an optional parameter where you can specify the location and name for the log file that the silent installation creates.

Notes:

1. SMS must be uppercase; this is a case-sensitive switch.
2. For more information about silent installations, see "Perform a silent installation of iSeries Access for Windows" on page 25.

Install service packs

Apply iSeries Access for Windows service packs.

You can avoid unnecessary calls to service for problems that might already have fixes, and create a more stable operating environment for your iSeries Access for Windows client by ensuring that you have the most recent PTFs and service packs.

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

When a service pack PTF is applied on the server, the original iSeries Access for Windows installation image is updated. Any client that installs from this updated installation image gets the new iSeries Access for Windows release plus the service pack level at the same time.

iSeries Access for Windows **When to check service level** function finds any PTFs that you apply to the iSeries server and downloads the fix. The function also manages the version of third-party applications (plug-ins) and other components.

Important:

- PTFs for iSeries Navigator plug-ins are provided independently of the iSeries Access for Windows service pack.
- Only users with administrator security can perform service pack updates but you can allow your users to do service pack updates tasks without administrator privileges.

Choose from the following topics for more on authorization, for detailed instructions and more information on PTFs and service packs.

Related concepts

“Get and Install PTFs” on page 9

Obtain the latest PTFs and service packs for your server to avoid unnecessary service calls and create a more stable operating environment.

Install the service pack silently:

Use a response file, containing installation information, to eliminate dialog boxes and user interaction during an install and setup.

Check the **Perform silent installation** box on the **Service** tab of **iSeries Access for Windows Properties** to do service level checks and service pack installation silently, without any user interaction. The silent service pack installation utility will use information from a response file to automatically answer prompts.

The response file is identical to the one used in silent installation, except you must specify the following name:

- SLTSP.ISS - for service packs (This file must reside in the same directory as your service pack **setup.exe** does)
- SLTUP.ISS - for upgrades (This file must reside in the same directory as your installation **setup.exe** file)

When you create your response file, you can set a parameter to restart automatically. If you set this to yes, you should set SCHEDCHECK in a scheduled job so that the silent check service version runs during the night. See the online iSeries Access for Windows User’s Guide for more information about SCHEDCHECK.

If set to no, a message box appears asking the user to **OK** restarting the system.

Related tasks

“Create response files for iSeries Access for Windows installations” on page 26

When to check service level function:

Check for updates to iSeries Access for Windows.

You can use **When to check service level**, a function of iSeries Access for Windows, on the PC to detect updates to iSeries Access for Windows and related components on the iSeries server and also to distribute service packs to client PCs

The **When to check service level** function automatically checks the host iSeries server for updates to any installed components. If updates are available, the user is usually alerted, and asked to allow the update. This opens **Selective Setup** in a special mode and updates the appropriate component.

To define options for checking the service level, go to the **Service** tab of **iSeries Access for Windows Properties**. From there you can set the following parameters:

- When to have check service level run.
- A date to check service level.
- The number of days before checking service level.
- The number of minutes to delay (after logon) to check service level.

Note: Policies can set limitations for the above functions. For example, if a policy sets a certain value to control the number of days between checking the service level, this value cannot not be overruled by changing the above parameters.

Choose from the following topics to learn more on using this function.

Related concepts

“Get and Install PTFs” on page 9

Obtain the latest PTFs and service packs for your server to avoid unnecessary service calls and create a more stable operating environment.

Set check service level properties:

Specify when and how frequent the service level is checked for new fixes to download.

To set the check service level properties, do the following:

1. Double-click the **iSeries Access for Windows Properties** icon in the iSeries Access for Windows program group.
2. Click the **Services** tab.
3. Change the values and click **OK**.

Note: The SCHEDCHECK parameter overrides the frequency settings. (For more information about SCHEDCHECK, see the *IBM eServer iSeries Access for Windows User's Guide*, an online help system available with the product.)

Schedule check service level:

Create a batch file to check your service level at regular intervals.

You can, optionally, schedule check service level to run at regular intervals. To do this, create a .bat file that runs check service level, and then use the **at** command to specify when the batch file should run.

1. Create a .bat file that the scheduler calls.
 - To have check service level use the parameters on the iSeries Access for Windows Properties Service tab, put a line similar to the following example in the .bat file:
c:\...\Client~1\CWBCKVER.EXE LOGIN
 - To have check service level to run whenever the schedule entry starts, put a line similar to the following example in the .bat file:
c:\...\Client~1\CWBCKVER.EXE SCHEDCHECK
2. Use the **at** command to schedule check service level. For example:

```
at 10:00/INTERACTIVE/EVERY:15 "c:\scheddir\ckverscd.bat"
```

This will start check service level at 10:00 a.m. on the 15th day of every month.

Note: This example uses a .bat file named ckverscd.bat in directory c:\scheddir. Your .bat file name and the directory where you store it are your choice.

When the schedule entry starts, a command prompt window opens on your desktop. Check service level prompts the user with message boxes and installation wizards. The user interface is identical to the interface that a Windows administrator would see running check service level.

Get and Install PTFs:

Obtain the latest PTFs and service packs for your server to avoid unnecessary service calls and create a more stable operating environment.

Fixes for iSeries Access for Windows are integrated into service packs, which are packaged into a program temporary fix (PTF) for delivery. You can download the latest PTF to your iSeries server to provide a more stable operating environment for the iSeries Access for Windows client, and to correct known problems. Once you have installed the PTF on your host system, you can use the **When to check service level** function to distribute service packs to client PCs.

Service pack PTFs update the iSeries Access for Windows installation image on the iSeries server. All installations reflect the latest service pack level of the host iSeries server.

Note: Only users with administrator authority can perform installations, service pack updates, and upgrades to new releases, however, you can allow your users to **Access scheduled tasks remotely** without administrator privileges.

Obtain the latest PTF for installation on your iSeries server

Use the send PTF order (SNDPTFORD) command to order the PTF for your iSeries server. Since the service pack PTFs generally exceed the size limit to be sent electronically, you can receive the PTF on media by changing the Delivery Method, DELIVERY, parameter on SNDPTFORD to *ANY. (The parameter defaults to *LINKONLY.) Alternatively, use Fix Central.

You can also order a service pack CD electronically, and place it directly in the integrated file system in a Virtual Optical Device from which you can install. To use this option, you must prearrange it with IBM Service.

To learn more about PTF ordering options, see IBM iSeries support

(<http://www.ibm.com/eserver/iseries/support/>)  and select **Fixes** from the left menu.

Related concepts

“When to check service level function” on page 31
Check for updates to iSeries Access for Windows.

Related tasks

“Access scheduled tasks remotely” on page 34
Apply service pack updates without administrator privileges.

Related reference

“Install service packs” on page 30
Apply iSeries Access for Windows service packs.
“Download sites for service packs”
Find PC-executable service packs.

Download sites for service packs:

Find PC-executable service packs.

IBM grants you a nonexclusive copyright license to use all programming code examples from which you can generate similar function tailored to your own specific needs.

SUBJECT TO ANY STATUTORY WARRANTIES WHICH CANNOT BE EXCLUDED, IBM, ITS PROGRAM DEVELOPERS AND SUPPLIERS MAKE NO WARRANTIES OR CONDITIONS EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT, REGARDING THE PROGRAM OR TECHNICAL SUPPORT, IF ANY.

UNDER NO CIRCUMSTANCES IS IBM, ITS PROGRAM DEVELOPERS OR SUPPLIERS LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY:

1. LOSS OF, OR DAMAGE TO, DATA;
2. DIRECT, SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; OR
3. LOST PROFITS, BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.

SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO SOME OR ALL OF THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

Service packs are available in a PC-executable form at the following Web sites:

- The iSeries Access Service Packs page:
www.ibm.com/eserver/series/access/casp.htm
- The IBM FTP site:
<ftp://ftp.software.ibm.com>

Navigate down the AS/400® directory to **as400/products/clientaccess/win32/v5r4m0/servicepack**.

Related concepts

“Get and Install PTFs” on page 9

Obtain the latest PTFs and service packs for your server to avoid unnecessary service calls and create a more stable operating environment.

Access scheduled tasks remotely:

Apply service pack updates without administrator privileges.

Because of the restrictions built into Windows operating systems, you can only upgrade service packs and iSeries Access for Windows if you signon as an administrator. You can use the scheduled tasks function of the Windows operating system with remote access to allow your users to do service pack updates and iSeries Access for Windows upgrades without administrator privileges. By creating a scheduled task on your local computer and dragging the .job file to a remote computer account, a network administrator can create task files for maintenance and add them to users' computers as needed. You can send and receive task files in e-mail messages, and you can share the Scheduled Tasks folder on your computer so that users can access it remotely by using My Network Places.

To use scheduled tasks:

1. On the Windows desktop, double-click **My Computer**.
2. Double-click **Scheduled Tasks**.
3. Use the help to assist you in scheduling tasks.

Notes:

1. The remotely scheduled task will run under an administrator account on the PC. For the scheduled task to work, the same administrator user ID and password must exist on the iSeries server. If the password changes on either the PC or the iSeries, any scheduled tasks must be edited or deleted and recreated with the new administrator password.
2. If the administrator account does not exist on the iSeries, you can use a NetServer guest user profile to support any installation requests made from the PC on the administrator account's behalf. Guest user profiles can pose security risks. For information about creating guest user profiles, see Set the guest user profile for iSeries NetServer.

Related concepts

"Get and Install PTFs" on page 9

Obtain the latest PTFs and service packs for your server to avoid unnecessary service calls and create a more stable operating environment.

Integrate new functions into iSeries Navigator

Install, uninstall, and maintain plug-ins.

Plug-ins reside in a source directory on the host server and allow you to integrate new functions or applications into iSeries Navigator. They typically add:

- Folders and objects to the hierarchy tree
- Choices to iSeries Navigator menus
- Property pages to the property sheet for a folder or object

You can distribute plug-ins to your users as part of the installation process. If a plug-in resides on the installation source, it appears as a sub-component of iSeries Navigator.

If a plug-in does not exist on your installation source, you can install it as a separate, installable component using Selective Setup. After completing the product installation, when you start Selective Setup, supply the location (one of the following directories) for the plug-in that you want to install.

Plug-in	Location
IBM	(iSeries NetServer name)\QIBM\ProdData\OpNavPlugin
Third party	(iSeries NetServer name)\QIBM\UserData\OpNavPlugin

Note:

- Selective Setup displays all Plug-ins that are available for installation from the specified location. However, some optionally installable components of iSeries Access for Windows do not appear if the client and host are not at the same version, release, and modification (VxRxMx) level.
- A warning message appears if the plug-in is not explicitly supported by iSeries Access for Windows, however, you can still install the plug-in.

After installation, you can maintain plug-ins using the When to check service level function.

Upgrade or service plug-ins

To update a plug-in, simply copy the updated files into the plug-ins installation source directory on the host.

The When to check service level function maintains the version of the plug-in. Every time this function starts, it checks the plug-ins installation source directory on the host to see if the plug-in requires an upgrade. If the plug-in requires an upgrade, CheckVersion begins the iSeries Access for Windows Selective Setup program in a special mode. Selective Setup then updates the plug-in.

For more information about plug-ins, and how you can use them, see *Developing iSeries Navigator plug-ins*.

Install or remove individual components

Use Selective Setup to install or remove individual components of iSeries Access for Windows.

If you have iSeries Access for Windows installed on your PC and want to install or remove additional components of iSeries Access for Windows, you can use Selective Setup. To start Selective Setup:

1. From the Windows desktop, click **Start** → **Programs** → **IBM iSeries Access for Windows** → **Selective Setup**.
2. Follow the instructions and online help that are provided by Selective Setup

Install other language versions

You can install secondary languages from an iSeries server that has both iSeries Access for Windows (5722-XE1) and the desired secondary language installed. For more information about installing secondary languages to an iSeries server, see the *Install, upgrade, or delete i5/OS and related software* topic collection in the Information Center.

You can install secondary languages during a new installation, an upgrade, or a selective install.

- To install a secondary language during a new installation:
 1. Map a drive to the iSeries QIBM sharepoint (`\\NetServerName\QIBM`)
 2. Double-click **QIBM** → **ProdData** → **Access** → **Windows** → **Install** → **Image** → **Setup.exe** to start the setup program.
 3. Choose a **Full** installation to have all the secondary languages, along with all the other iSeries Access for Windows components installed to your PC. Choose a **Custom** installation to select which secondary languages and components you want installed to your PC.
 4. Complete the wizard.
- To install a secondary language during an upgrade:
 1. Map a drive to the iSeries QIBM sharepoint (`\\NetServerName\QIBM`)
 2. Double-click **QIBM** → **ProdData** → **Access** → **Windows** → **Install** → **Image** → **Setup.exe** to start the setup program.
 3. If you had the secondary language installed in the previous version, choose the **Basic** upgrade. If you did not have the secondary language installed, choose the **Selective** upgrade to select which secondary languages and components you want to add or remove.
 4. Complete the wizard.
- To install a secondary language after iSeries Access for Windows has been installed:
 1. Map a drive to the iSeries QIBM sharepoint (`\\NetServerName\QIBM`)
 2. Click **Start** → **Programs** → **IBM iSeries Access for Windows** → **Selective Setup**.
 3. In Selective Setup options, type the letter of the drive you mapped to the iSeries. Click **Next**.
 4. Select the secondary languages and components you want to add or remove.
 5. Complete the wizard.

After you have installed the secondary language, use **iSeries Access for Windows Properties** to select the language you want to use.

Note: If you decide to install the .NET Data Provider after you have installed secondary languages, you must:

1. Use Selective Setup to uninstall the secondary language.
 - The IntelliSense feature for secondary languages is not supported by the .NET Data Provider, if the secondary language is not uninstalled.

2. Install the .NET Data Provider.
3. Use Selective Setup to install the secondary language.

Related tasks

“Install or remove individual components” on page 36

Use Selective Setup to install or remove individual components of iSeries Access for Windows.

Related information

Install, upgrade, or delete i5/OS and related software

Upgrade iSeries Access for Windows

If you already have iSeries Access for Windows installed, use this information to learn how to upgrade to a newer release.

If you have iSeries Access for Windows installed and want to upgrade to a newer release, you should be aware of the following:

- You can install additional functions or remove functions when you upgrade iSeries Access for Windows.
- Only users with administrator authority can perform upgrades to new releases. You can use the Windows Scheduled tasks feature with remote access to allow your users to do upgrades without administrator privileges.
- If the source you are using for your iSeries Access for Windows upgrade does not have a component you had installed in your earlier release of iSeries Access for Windows, then the missing component(s) will be automatically uninstalled during an upgrade.
- If the 56-bit Client Encryption is installed, it will be upgraded to the 128-bit Client Encryption during the upgrade.
- Beginning with V5R2, iSeries Access for Windows has not supported mail APIs (MAPI). When you upgrade, MAPI will be automatically uninstalled from your PC. If you are upgrading from an earlier release that still uses MAPI to tie directly to the system distribution directory for storing user information, it is recommended that you migrate from using the system distribution directory to using “Publish directory information to LDAP.”
- Beginning with V5R3, the function contained in the iSeries Navigator Application Development installable component is now in the iSeries Navigator Network installable component.

To upgrade from iSeries NetServer, follow the installation procedure in “Install iSeries Access for Windows from iSeries NetServer” on page 22.

To upgrade from CD-ROM, follow the installation procedure in “Install iSeries Access for Windows from CD-ROM” on page 23.

To upgrade from a Windows network drive, follow the installation procedure in “Install iSeries Access for Windows from a Windows network drive” on page 24

Publish directory information to LDAP

Use iSeries Navigator to publish directory information to LDAP:

1. Open iSeries Navigator.
2. Right-click on the system name.
3. Select **Properties**.
4. Select the **Directory Services** tab.
5. Select the user information to publish to the LDAP directory server.

For details on publishing directory information to LDAP using iSeries Navigator, see Publish information to the directory server.

Publishing directory information to LDAP can also be accomplished through the use of a character-based interface. For details on publishing directory information to LDAP using a character-based interface, see this alphabetic list of APIs.

For general information about LDAP and publishing, see iSeries LDAP

(<http://www.ibm.com/eserver/series/ldap>) .

Uninstall iSeries Access for Windows from the PC

If you already have iSeries Access for Windows installed, use this information to learn how to uninstall it from your PC.

To uninstall iSeries Access for Windows:

1. Save information and close running applications.
2. On the desktop, double-click **My Computer**.
3. Open **Control Panel** → **Add/Remove Programs**.
4. Select **IBM iSeries Access for Windows** from the list of installed programs, and click **Change/Remove**.
5. In the iSeries Access for Windows Setup wizard, select **Uninstall**.
6. Follow the directions of the wizard.

Note: On completion, the wizard will shut down and restart your PC.

Related information

Find other sources of information about iSeries Access for Windows.

Listed below are the Web sites and online help that relate to the iSeries Access for Windows topic.

Web sites

IBM home page  (<http://www.ibm.com>)

Visit this site for information about IBM products, services, support, and downloads.

IBM iSeries home page  (<http://www.ibm.com/eserver/series>)

Learn about the iSeries family of servers.

IBM iSeries Access for Windows home page  (<http://www.ibm.com/eserver/series/access/windows/>)

Visit this site to learn more about iSeries Access for Windows.

IBM iSeries Access home page  (<http://www.ibm.com/eserver/series/access>)

This Web site includes online product information about iSeries Access.

iSeries Navigator home page  (http://www.ibm.com/eserver/series/oper_nav)

iSeries Navigator is a powerful graphical interface for Windows clients. Visit this Web site to see what iSeries Navigator functions are available for each release

IBM software home page  (<http://www.ibm.com/software>)

Use this site as a resource for IBM software, trials and betas, software news, information about buying software, and software support.

IBM eServer iSeries support  (<http://www.ibm.com/eserver/series/support/>)
Technical support and resources for iSeries and i5/OS.

IBM Redbooks™ home page  (<http://www.redbooks.ibm.com>)
See this site for additional skills, technical know-how, and materials.

IBM iSeries NetServer home page  (<http://www.ibm.com/servers/eserver/series/netserver/>)
See this site for information about iSeries NetServer.

iSeries Access for Windows Readme file  (www.ibm.com/eserver/series/access/v5r4.html)
See this site for important information or technical changes to the product.

Information APARs  (<http://www.ibm.com/servers/eserver/series/access/caixe1.htm>)
An information authorized program analysis report (Information APAR) is an electronic document that is used to communicate information not found in publications, online information, critical fix information, or other sources.

Online help

After installing iSeries Access for Windows, you have a valuable resource called the online **User's Guide**. This guide helps you find and correct problems and contains how-to procedures. Use the index in the guide to search for a specific topic. The User's Guide walks you through many complex situations and helps you solve most problems.

Note: You might not have the User's Guide installed if you performed a custom or 5250 User install of iSeries Access for Windows. You can install the User's Guide through Selective Setup.

Related concepts

"Set up the server for iSeries Access for Windows" on page 5

Use this information to learn the steps to install iSeries Access for Windows and other required and optional programs on your iSeries server.

Chapter 3. iSeries Access for Windows: Using

IBM eServer iSeries Access for Windows features a variety of PC-to-iSeries server functions, applications, and enablers. Some of the features available with IBM eServer iSeries Access for Windows allow you to:

- Take advantage of .NET technologies to read and retrieve data, make changes, and run SQL server commands against data objects on your iSeries server using the IBM DB2 UDB for iSeries .NET Provider.
- Use SQL statements, stored procedures, data queues, programs, and commands to develop your client/server applications, and also give you record-level access to logical and physical DB2 UDB for iSeries database files using OLE DB Providers.
- Use Incoming Remote Command (IRC) to send commands from various systems to your personal computer, that has iSeries Access for Windows installed, and run them on a target system.
- Manage, view, and print iSeries printer output using AFP Workbench Viewer & Printer Drivers.
- Transfer data between the PC client and iSeries server by using Data Transfer.
- Take advantage of terminal emulation and printer emulation by using PC5250.
- Manage your iSeries servers with iSeries Navigator. iSeries Navigator includes Management Central for easy administration of multiple servers.
- Set up and service an iSeries server using EZSetup and Operations Console.
- Use the Open Database Connectivity (ODBC) interface to work with your database.
- Use application development resources such as Application Programming Interfaces(APIs) and related code sample programs, header files, library files, and documentation available with the Programmer's Toolkit.
- Use file and print serving capabilities through iSeries Support for Windows Network Neighborhood (iSeries NetServer).

For complete documentation on using the IBM eServer iSeries Access for Windows, see the *IBM eServer iSeries Access for Windows User's Guide*, an online help system available with the product.

Chapter 4. Code license and disclaimer information

IBM grants you a nonexclusive copyright license to use all programming code examples from which you can generate similar function tailored to your own specific needs.

| SUBJECT TO ANY STATUTORY WARRANTIES WHICH CANNOT BE EXCLUDED, IBM, ITS
| PROGRAM DEVELOPERS AND SUPPLIERS MAKE NO WARRANTIES OR CONDITIONS EITHER
| EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR
| CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND
| NON-INFRINGEMENT, REGARDING THE PROGRAM OR TECHNICAL SUPPORT, IF ANY.

| UNDER NO CIRCUMSTANCES IS IBM, ITS PROGRAM DEVELOPERS OR SUPPLIERS LIABLE FOR
| ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY:

- | 1. LOSS OF, OR DAMAGE TO, DATA;
- | 2. DIRECT, SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC
| CONSEQUENTIAL DAMAGES; OR
- | 3. LOST PROFITS, BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.

| SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF DIRECT,
| INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO SOME OR ALL OF THE ABOVE LIMITATIONS
| OR EXCLUSIONS MAY NOT APPLY TO YOU.

Appendix. Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

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

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106-0032, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation

Software Interoperability Coordinator, Department YBWA
3605 Highway 52 N
Rochester, MN 55901
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

- | The licensed program described in this information and all licensed material available for it are provided
- | by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement,
- | IBM License Agreement for Machine Code, or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. _enter the year or years_. All rights reserved.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Programming Interface Information

This iSeries Access publication documents intended Programming Interfaces that allow the customer to write programs to obtain the services of iSeries Access.

Trademarks

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

- | 1-2-3
- | AFP
- | Client Access
- | DB2
- | e(logo)server
- | eServer
- | i5/OS
- | IBM
- | IBM (logo)
- | Lotus
- | NetServer
- | iSeries
- | Redbooks

- | Intel, Intel Inside (logos), MMX, and Pentium are trademarks of Intel Corporation in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

- | Linux is a trademark of Linus Torvalds in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

Terms and conditions

Permissions for the use of these publications is granted subject to the following terms and conditions.

Personal Use: You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative works of these publications, or any portion thereof, without the express consent of IBM.

Commercial Use: You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.



Printed in USA