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iSeries Access	Family - Packagin	g
V5R3 5722-XW1 iSeries Access Family	V5R2 5722-XW1 iSeries Access Family	V5R1 5722-XW1 Client Access Family
iSeries Access for Windows, 5722-XE1, V5R3	iSeries Access for Windows, 5722-XE1, V5R2	AS/400 Client Access Express for Windows, 5722-XE1, V5R
iSeries Access for Web, 5722- XH2, V5R3	iSeries Access for Web, 5722- XH2, V5R	iSeries Access for Web, 5722- XH1, V5R1
	WebSphere Host Publisher, 5724-B81, V4.0, 5724-B81, V4.01	WebSphere Host Publisher, 5648-E25, V3.5, 5724-B81, V4.01
HATS Limited Edition V5.0, 5724-F97-01	HATS Limited Edition V4.0 5724-D34-01 (after 6/30/2003)	HATS Limited Edition V4.0, 5724-D34-01 (after 6/30/2003)
iSeries Access for Linux, 5722- XL1, V5R3		Customers with Software Subscription can get V5R2 clients by ordering no-charge Feature No. 2645 of Product No. 5722-XW1
	After 6/30/2003, current V5R2 customers can get version of Host Publisher that runs on WAS V5 and HATS LE by ordering no-charge Feature No. 2646 of Product No. 5722-XW1	After 6/30/2003, current V5R1 customers can get version of Host Publisher that runs on WAS V5 and HATS LE by ordering no-charge Feature No. 2646 of Product No. 5722-XW1
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Hardware/Software requirements...

Operating system	iSeries Access for Windows	iSeries Navigator
Windows NT 4.0	 Pentium 100 MHz and at least 32 MB Microsoft Windows NT Service Pack 6a Microsoft Internet Explorer 5.01 or later 	 Pentium 850 MHz minimum and at least 256 MB, 512 MB recommended Microsoft Windows NT Service Pack 6a Microsoft Internet Explorer 5.01 or later
Windows 2000	 Pentium 133 MHz and at least 64 MB Pentium 850 MHz minimum and at least 256 MB, 512 MB recommended 	Pentium 850 MHz minimum and at least 256 MB, 512 MB recommended
Windows XP	Pentium 233 MHz and at least 128 MB	 Pentium 850 MHz and at least 256 MB, 512 MB recommended
Windows Server 2003	 32-bit PC Pentium 133 MHz and at least 128 MB Pentium 64-bit PC Pentium 733 MHz and at least 192 MB 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. 	 Pentium 850 MHz and at least 256 MB, 512 MB recommended
Note: If you do r removing, and c component. Inst	not plan to use iSeries Navigator for anything other than hanging connection properties), it is recommended that alling that component will result in higher memory usage	managing your iSeries connections (adding, you do not install the iSeries Navigator base when managing your iSeries connections.
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Hardware/Software requ	irements
Other PC requirements	Value
Disk Space - Install	 Typical - 148 MB (approximately) PC5250 User - 39 MB (approximately) Full - 221 MB (approximately) Custom - varies, depending on components installed
Adapter Card	A communications adapter card that supports TCP/IP.
 Notes The Disk Space - Install values are approximate (www.ibm.com/eservers/iseries/access/pcreq.hi You need 5 MB available on the drive where the accommodate temporary files that the iSeries A Additional files are downloaded from the iSeries iSeries Navigator. Service packs require additional space. The size for a Full installation could be different installation search path. 	 For the exact values, see PC requirements ml) Windows operating system is installed to ccess for Windows setup program creates. server when you use the File Systems function of depending on whether SSL and plug-ins are in the
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Getting Start	ed						0,50	
 Many new functions available from iSeries Access for Windows icon group 	Emulator EZ-Setup Selective Setup	Program Toolkit	Service Service iSeries Access f Start Direct	AFP Workben iSeries Navigator iSeris Guide	Data Transf ODBC Administr Welcome Wizard	Data Transfer Operations Console	Directory Update	
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iSeries Acce	ess Middleware	
Middleware	Where it fits	Value to iSeries
 iSeries ODBC driver 	 Industry-standard Windows database access method. Supports Microsoft V3.0 specification. 	Access to DB2 UDB for iSeries
 iSeries OLE DB provider (driver) Visual Basic Wizards 	 Microsoft's universal data access standard interface for Windows applications working with relational and non-relational data. Supports OLE DB 2.5 Can use ADO 2.2 and 2.5 Can use VB 6.0 	 Access to DB2 UDB for iSeries Can use OS/400 Data queues, Remote Commands, Stored Procedures, Distributed Program Calls VB Wizards can be used with AS/400 OLE DB provider
 .NET Data provider called IBM.Data.DB2.iSeries 	Microsoft .NET Framework is a platform for building, deploying, and running Web Services and applications	 Enables applications using Microsoft's .NET framework to access DB2 UDB for iSeries databases
Data Queues Remote Commands Stored Procedures Distributed Program Calls SQL APIs Data Transfer APIs	Active X Automation Controls & Objects Industry-standard Windows programming interface	Works with OS/400 Data queues, Remote Commands, Stored Procedures, Distributed Program Calls Access to DB2 UDB for iSeries
PC5250 enablers	 Includes ActiveX controls Industry-standard EHLLAPI, WinHLLAPI, DDE for code conversion. 	 For 5250 applications ENPTUI for enhanced 5250 datastream functions
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Notes: Middleware

iSeries ODBC Driver ODBC is a Microsoft-defined standard database access interface for Windows users. Client Access provides an iSeries ODBC driver to enable any ODBC 32-bit Windows application (written to MS V3.0 specification) to transparently access DB2/400 information. iSeries ODBC driver supports Dynamic SQL access at static SQL speed (4x improvement), Block Fetch, Insert, Update, & Delete functions, takes advantage of DB2/400 Optimizer, supports Stored Procedures (result sets from stored procedures), SQL Collections do not need to be defined

iSeries OLE DB Provider (driver) OLE DB is a Microsoft 32-bit Windows architecture for universal data access. OLE DB is defined as a multi-platform access method for relational and non-relational data, and is a superset of ODBC. Client Access includes an iSeries OLE DB Provider so that any PC application written to this interface can be used to access iSeries resources. The iSeries OLE DB Provider can be used for record level access, SQL calls, stored procedures, data queues, programs, and CL commands. The OLE DB and ActiveX toolkit which provides Visual Basic wizards and other sample programs is provided as part of the Client Access Toolkit. programs is provided as part of the Client Access Toolkit.

ActiveX Automation Objects ActiveX automation objects are provided for Client Access data queues, remote commands, and distributed program calls. Many popular client languages, such as Visual Basic, Delphi, PowerBuilder, and Visual C++, support ActiveX automation objects, and now these programs can use the Express client key components to develop client/server applications between the PC and the iSeries. Online help (including example code) is provided and can be accessed from object browsers.

iSeries Toolbox for Java The iSeries Toolbox for Java includes a series of low-level APIs for accessing AS/400 data and resources from a Java program. It also accessing AS/400 data and resources non-a data program. It also includes a set of GUI classes to present iSeries data to the user from a Java program. The GUI classes use the Java Swing 1.0 (JFC 1.1) framework. This is a separately installable option of Client Access install. Once installed through Client Access, through the Client Access Java Toolbox will be delivered to PC users through the Client Access 'service' function (ie, whenever a PTF for the Java Toolbox is applied to the iSeries Check Service Level recognizes the new level and downloads the fix to the client).

- <u>PC5250 Enablers</u>
 <u>ENLLAPI support</u> is provided so programmers can add a graphical interface to applications written to a 5250 interface to perform functions such as host data access, screen scraping and host automation. This industry-standard 32-bit support laiso enables applications currently written to another emulation products' EHLLAP1 to migrate and run unchanged using PC5250. WinHLLAP1 support is implemented so customers who have
- WOSA-compliant applications can migrate to PC5250. PC5250 DDE now includes code conversion support. This
- provides a more consistent set of DDE APIs thus making it easier to migrate applications across different platforms. Enhanced Non-Programmable Terminal User Interface (ENPTUI) provides 5250 datastream functions such as ability to show radio buttons and check boxes on end-user desktops that can support these functions (such as a PC versus a 5250 terminal)
- PC5250 ActiveX Controls have been added and can be used in any application that supports ActiveX controls (such as Visual Basic, C++, etc). These controls enable host applications to use a list box or button.

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Notes: What is ODBC MTS Support?

What is MTS?

Microsoft Transaction Server (MTS) is a feature of the Microsoft Windows NT and 2000 Server O/S for development and deployment of three-tiered, servercentric applications built using COM technologies. MTS offers automatic transaction support, role-based security, access to other databases (including connection pooling), message queuing products and mainframe-based applications.

What is in Express V4R4/5 ODBC for MTS?

- Connection Pooling, which provides improved performance, is already available as the Microsoft ODBC driver manager handles it (ie, the Express ODBC driver doesn't do anything different or special). The user can turn connection pooling on and off via the ODBC Administrator's 'Connection Pooling' tab. This displays a list of the installed drivers, click on one to set whether connection pooling will be enabled or not and set the time-out value for unused connections.
- The Express ODBC driver was made 'Thread Safe' via V4R4 Service Pack SF59557. See Information APAR II11851 for information on thread safety.

What is in Express V5R1 ODBC for MTS?

- OS/400 V5R1 UDB/400 supports the X/Open XA standard for transaction coordination that the ODBC driver uses to provide two phase commit. ODBC driver will accept the commands and send them to the iSeries via a new set of database host server functions.
- ODBC driver support the SQLSetConnectAttr(SQL_ATTR_ENLIST_IN_DTC) statement
- The user can turn connection pooling on and off via the ODBC Administrator's 'Connection Pooling' tab. This displays a list of the installed drivers, click on one to set whether connection pooling will be enabled or not and set the time-out value for unused connections.
- ODBC driver is thread safe (see Information APAR II11851 which describes thread safety and documents that since V4R4 Service Pack SF59557, our driver is thread safe).

MTS Requirements and Restrictions

- MTS 2.0 (Windows NT with Option Pack 4.0 or Windows 2000) installed in the second tier machine. Distributed Transaction Coordinator (DTC) is included.
- Client Access Express VSR1 with ODBC installed in the same machine.
- OS/400 V5R1 for two phase commit.
- V5R1 MTS support is restricted to one transaction per connection at a time.

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Refer to:
 For V5R3: <u>http://publib.boulder.ibm.com/infocenter/iseries/v5r3/ic2924/info/exp</u> <u>erience/mcfirewall.pdf</u>
 For V5R2: <u>http://publib.boulder.ibm.com/iseries/v5r2/ic2924/info/experience/mc</u> <u>firewall.pdf</u>
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Support data compres	sion for faster transfers	
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Notes: Convert Excel date and allows the transfer of sti formats to the iSeries w Typically, date and time be character strings. By be converted to an iSeri requiring prior conversion The following standard formats are supported: Format string	time cells to iSeries date and time andard Excel internal date and time ithout requiring conversion. cells uploaded to the iSeries must enabling this option. Excel data can es compatible date or time without in to a character string. Vicrosoft Excel date and time Example	Convert numeric data in character columns to character data - allows the conversion of numeric cells in spreadsheet data to be converted to character. With this option disabled, numeric cells in character columns cause Data Transfer to end with an error message. By enabling this option, you can specify that numeric cells are converted to character on the upload to the iSeries to avoid Data Transfer ending when it encounters numeric data. NOTE: Converted character strings are not verified by Data Transfer since the expected string cannot be determined. Data loss could occur during the conversion.
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PTFFORM is intended to update a copy of the original image or for a <u>Tailored Image</u> that you have created using cwbining.bat. When you download the Service Pack file from the web site and run it, it automatically expands into a temporary directory, asks you where the install image is that you'd like to update to the new service level, updates that image, then cleans up it's temporary directory.

You should not use PTFFORM to the original image on your iSeries in QIBM/ProdData\Access\Windows\Install\Image. It is better to obtain the official Service Pack PTF from Service or use a CumPkg; then update the original image using the LODPTF and APYPTF commands. LODPTF/APYPTF update the DSPPTF information on your iSeries that is used for fix management and service. If you use PTFFORM instead, it would work. But DSPPTF 5722XE1 on your iSeries will have no knowledge of your update and a future CumPkg could backlevel you.

Getting Service Pack PTFs

You can order a Service Pack CD from IBM. It will take a few days to receive this CD, and then you need to have someone in Operations put the CD in the iSeries optical drive.

A new feature in OS/400 V5R2 is that you can order a Service Pack CD electronically, and place it directly in the IFS in a Virtual Optical Device. You can then install from this Virtual Optical Device just like you would from the real iSeries Optical Device. Basically what you are doing is:

Downloading a CD image containing your PTF and making the IFS look like a CD drive to install from.

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IBM erver* Also use normal procedures to install Service Pack on your iSeries iSeries Access Connection Information Information APARs (Support Statements) FAQs Latest Service Packs for Supported Releases Windows(R) Operating To see service packs for every release, refer to <u>Service Pack History for All Releases</u>.
 For problems downloading a service pack, <u>click hare</u>.
 For support information on iSeries Access and the Microsoft Windows operating systems, <u>click hare</u>.
 Operations Console users: <u>Known problems with Operations Console and Windows 2000 Service Pack 4</u> Systems (2000/Me/XP/etc) Technical Support ISeries Access for Windows (Client Access Express) (5722-XE1) Release Level Articlas IBM Library Latest Service Pack PTF Numbe Server Maintena<u>nce</u> Date PTF was Available talled Fi Date Target for Next Express Toolkit iSeries Information Center Refer to V5R2M0 SI08894 June 20, 2003 08/05/02 October 24, 2003 Ser er Notes Related links Refer to November 21, 2003 V5R1M0 May 8, 2003 05/06/01 <u>SI08389</u> Server Notes Problems downloading a Service Pack Try one of these Review the Software Knowledge Base Article: Problems Downloading Files from the FTP Site, including **Client Access Service Packs** Order the PTF to install on your iSeries Use SNDPTFORD to order the PTF (product 5722XE1) and install it on your iSeries. 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" (DELUPKP) parameter on SNDPTFORD to "ANV. (The parameter defaults to "LINKONLY.) Use Internet FFF Delivery (IPTF). To find out about this service and the requirements, go to http://www.ibm.com/sesrverifseries/support/ and from the left menu, select "Fixes". 2004 IBM Corporation iSeries. mySeries.















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Step 2. Record Image	Silent Install of the Tailored Install
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Set up to record a Silent Install Response File	 Do not have any version of Client Access or iSeries Access (5763-XD1, 5722-XE1) on your PC Point to QIBM directory on your iSeries Point to location you want to store your response file (not in QIBM directory)
Using 'universal naming convention' (UNC) rather than mapping a drive - so it can be found without a mapped drive	 Bring up a command prompt Key in Silent Install command 'setup -r -f1d:\dir\file.iss' to identify where responses are to be stored This starts the iSeries Access Install program
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TRM eserver[®] Notes: Administrator tasks Issue: If the end user is not considered the 'administrator, then the administrator must sign onto the PC in order to install updates, etc Solutions: When the Administrator initially sets up the PC for the end user, the Administrator should set up an administrator's account on every PC. The userid/password of the administrator account on the PC needs to exist on the iSeries if the scheduled install is to work. If the administrator userid also exists on the iSeries, then the passwords must match (on PC and iSeries). If the password changes on either end, the launch of the install won't work, and the administrator password needs to be synched up. When an administrator password is changed, any scheduled task needs to be edited or deleted/recreated with the new administrator password associated with it. Note: The Windows Help text says that the administrator password never expires so you can get around the problem of resetting all the passwords, but if the Administrator the iSeries password, then the password must be changed for all the scheduled tasks at the same time. Easiest might be to NOT have the PC administrator userid on the iSeries -- and instead use the NetServer Guest user profile to support any install requests made from the PC on the PC administrator account's behalf. Note: Please understand the ramifications and exercise caution when using the Guest user profile Now the Administrator can 'schedule tasks' to run on the end user PC under the Administrator's userid/password. The Administrator could use some command like the DOS "AT" command: Administrators can use the "AT" command (part of Windows O/S) to run remotely on the PC user desktop. Administrator can create a scheduled task on HIS local PC to run setup.exe from this directory and drag it to the user's PC remotely. setup.exe > image Administrator could schedule another task for CheckService on HIS local PC and copy it to the user's PC remotely. The scheduled job on the PC is going to run under an administrator account on the PC. iSeries Access for Windows Properties, Service tab: Under the Service tab: Set 'the entry "When to check" to 'Never' as the Administrator will be defining a schedular task and not using the internal iSeries Access for Windows schedule Then set up a Windows schedule entry to run as an administrator account: --> Open Control Panel --> Open 'Scheduled Tasks' --> Add Scheduled Task For more information see: es/v5r2/ic2924/index.htm?info/rzahl/rzahlnetguestprof.htm

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Notes: Administrator tasks
Issue: If the end user is not considered the 'administrator, then the administrator must sign onto the PC in order to install updates, etc
Use Access for Windows Silent Install Updates
Alternatively, the Administrator could set in the iSeries Access for Windows Properties to 'Perform silent installation'. If the administrator is intending a silent install, then the following should be set:
 The 'Source Directory' must contain the location of new service packs and/or releases. Browse the Check Service Level program (C:\Program Files\IBM\Client Access\ cwbckver.exe or if iSeries Access for Windows installed to a different directory, browse to there), and assign a name to this task (for instance "iSeries Access Check Service Level") Set 'Schedule Frequency' to how often you want the task to run
Enter the Administrator account information (user name and password) to run Check Service Level under that account
 Open Advanced Properties to add the SCHEDCHECK parameter to the 'Run' field (for example "C:\Program Files\IBM\Client Access\cwbckver.exe" SCHEDCHECK Press OK to save the schedule entry - can view it later via 'Scheduled Tasks' in Control Panel
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Application Ad	Iministration - b	y use	e r iSe Wir	ries Acce ndows	ess for	
All Application Administration information is stored on the	Application Administration - Rchasl dd Select the functions or applications available to users Geries Navigator Client Applications Host Application Function	15 Default Access	All Object Access	Customized Access		
and roams with users when they use iSeries Access for Windows on a different PC	응 2520 Display and Printer Enulator 응 2520 Display and Printer Enulator 응 2530 Data Transfer 응 2530 Download from server 응 2530 Download from server 응 2530 Downloads 응 2530 Downloads 응 2530 Downloads 응 2540 Downloads 응 2540 Downloads 응 2540 Add in Downloads 응 2540 Add in Downloads 응 2540 Downloads	র র র র র র র র র	র <u>র র র র র র র র</u> র			
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Application Adminis	stration - By User
Individual users and groups can be given more or less access capabilities	Eustomize Access mylsories 121 Function: Excel Addrin Uploads: iSeries Access to Windows 1 Product: Provides aupport to upload server data using the Data Trender Excel Addrin.
Holly Properties - Partition2 User name: HOLLY Description: Holy Smith	Access: Verses with all object system privilege Cutomized access of users and groups Users and groups: Access allowed: Br All Users: Access allowed: Access allowed: Acc
Plassword Use same password Previous sign-on: Never Sign-on altempts not valid: 0	Image: Brouge and the second seco
Allow of lent, applications to share this password Enable user for processing Groups Personal Capabilities	Remove Dustomization CK Darcel Heln
ОК	Cancel Help •Capabilities button •Applications tab
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Application Adm <u>Central Settings support</u> <u>Advanced Settings</u> This allows an administrator to customize many of the properties used by iSeries Access for Windows, such as: • Definining a set of environments to be used by the client • Customize many of the connection, service, language, and password used by the clients	Applications of applications available to users.	ntral S		Customized Access		
e 2004 IBM Corporation		iSer	ies. m	ySeries.		







	@ server
Signon Information Image: Connection Image: Connection Information has not been specified for this iSeries connection. The signon information will be used each time you connect to this server. Server: MYISERIESSYSTEM Image: Series signon information Image: Series signon information Image: Use Windows user name and password, no prompting Image: CmINER Image: Use default user ID, prompt as needed Image: Prompt gvery time Image: Use Kerberos principal name, no prompting Image: Use Kerberos principal name, no prompting	Support for Kerberos authentication of users • Kerberos ticket can replace the sending of userid and password from a PC to the iSeries. • Kerberos authentication as a new connection
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eserver









