

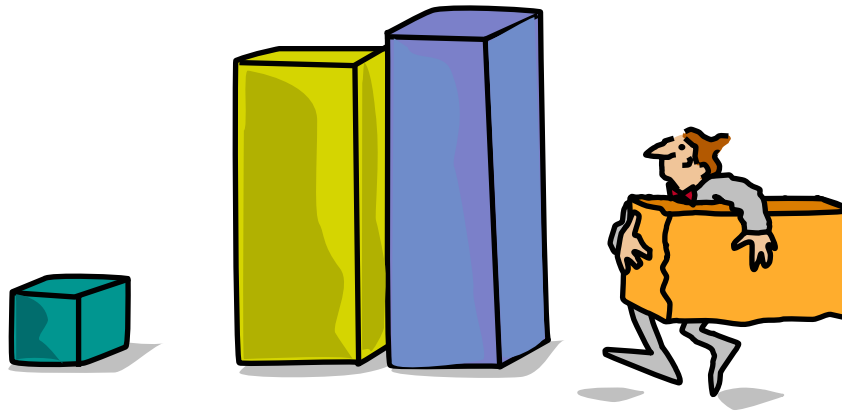


# iSeries Access for Windows and Web: What's New?

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<http://www.ibm.com/systems/i/software/access>

# Packaging & Ordering



# iSeries Access Family - Packaging

<b>V5R4 5722-XW1 iSeries Access Family</b>	<b>V5R3 5722-XW1 iSeries Access Family</b>
iSeries Access for Windows, 5722-XE1, V5R4	iSeries Access for Windows, 5722-XE1, V5R3
iSeries Access for Web, 5722-XH2, V5R4	iSeries Access for Web, 5722-XH2, V5R3
	HATS Limited Edition V5.0, 5724-F97-01 (withdrawn 1Q2006)
iSeries Access for Linux, 5722-XL1	iSeries Access for Linux, 5722-XL1, V1.10
iSeries Access for Wireless, 5722-XP1, V5R4	iSeries Access for Wireless, 5722-XP1, V5R3
	V5R3 customers not wanting to upgrade to i5/OS V5R4 but want the new V5R4 iSeries Access Family clients can order no-charge <b>Feature No. 2648 of Product No. 5722-XW1</b>

## Products - Focus

Description	Product	Product Number	Need 5722-XW1 to use
Family Name	➤ iSeries Access Family	5722-XW1	
Windows client	➤ iSeries Access for Windows	5722-XE1	Yes (for 5250 and Data Transfer)
Linux client	➤ iSeries Access for Linux	5722-XL1	Yes (for 5250)
Browser Access	➤ iSeries Access for Web	5722-XH2	Yes
Handheld / Wireless offering	➤ iSeries Access for Wireless ➤ iSeries Toolbox for Java ME	5722-XP1	No
i5/OS systems management	➤ iSeries Navigator ➤ Operations Console ➤ EZ-Setup	Packaged in 5722-XE1	No

### Flexible Purchase Options

Processor-Based = purchase price based on software tier, connect unlimited numbers of users

User-Based = purchase only number of users who will be concurrently connected

Note: Can upgrade from User-Based to Processor-Based, but cannot go back to User-Based after purchasing Processor-Based

Software maintenance included in base OS/400 software subscription

# iSeries Access Family included with new System i Hardware

**iSeries Access Family (5722-XW1) unlimited user feature included with the following System i hardware**

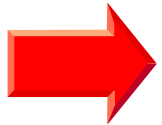
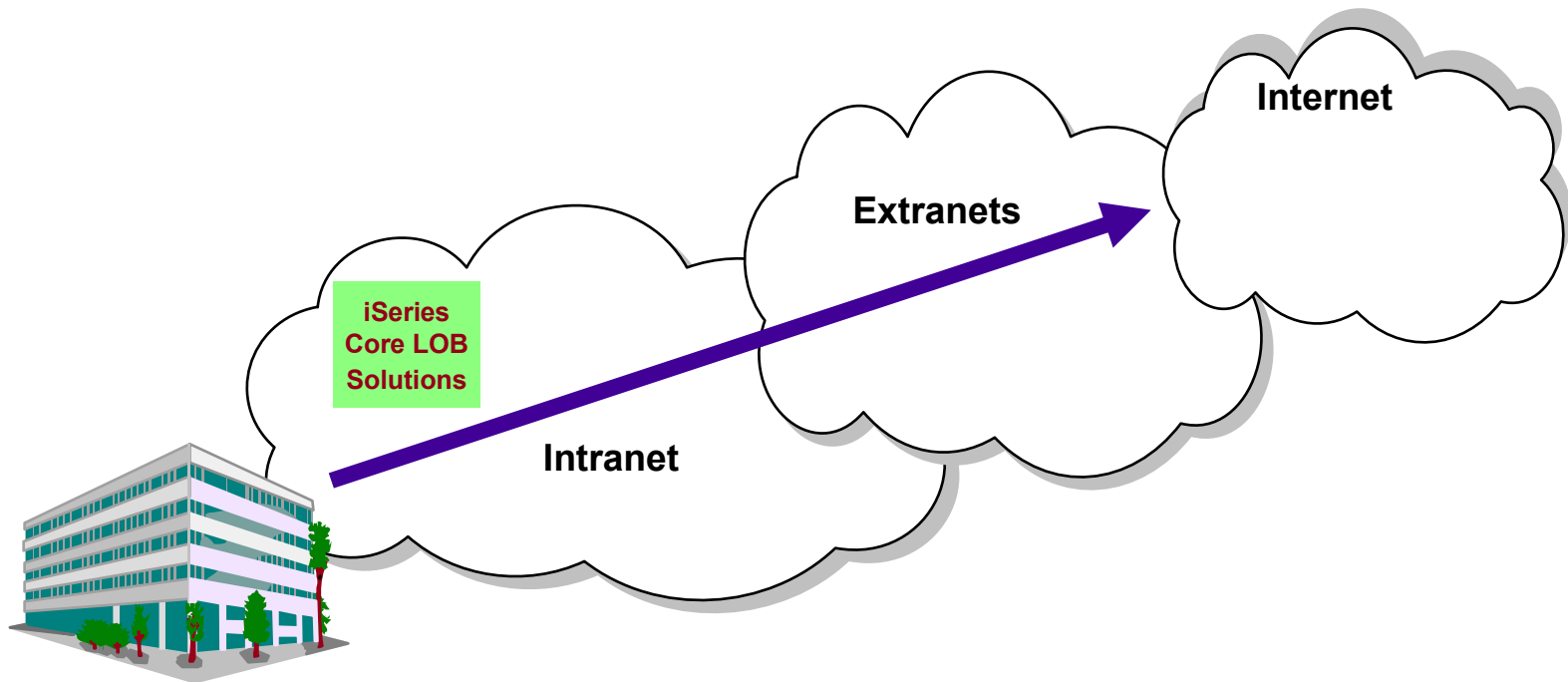
- **System i Model 515 Express configurations**
  - See Announcement Letter 107-181 dated 4/1/07 for more details
- **System i Model 525 Express and CBU configurations**
  - See Announcement Letter 107-182 dated 4/1/07 for more details
- **System i Model 570 with POWER6 technology**
  - See Announcement Letter 107-448 dated 7/31/07 for more details

**Any i5/OS user connecting to the above System i models is entitled to use any of the iSeries Access Family products at no additional charge. This includes:**

- **iSeries Access for Windows**
- **iSeries Access for Web**
- **iSeries Access for Linux**



# Core LOB Solutions



Looking for highly functional and integrated solution for:

- Windows servers and Windows desktop users
- i5/OS administration and operation



**iSeries Access for  
Windows  
5722-XE1  
V5R4**

**iSeries Access for Windows**

innovative...  
integrated...  
impressive...  
...iSeries

iSeries Access for Windows... the strategic choice for interacting with and managing your iSeries servers.

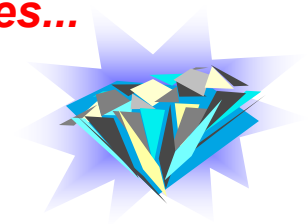
[www.ibm.com/eserver/series/access](http://www.ibm.com/eserver/series/access)

**[www.ibm.com/systems/i/software/access/windows](http://www.ibm.com/systems/i/software/access/windows)**

# Integrating native Windows with System i

*If you want a single solution for working with all System i resources...*

- **A single offering designed for Windows users that provides:**
  - High-function, easy-to-use 5250 emulator to work with iSeries applications
  - A PC print server that OS/400 output can be sent to and run unattended
  - Access to iSeries database and other resources from Windows applications
  - Ability to use iSeries as file and print server
  - Administer users and monitor/manage iSeries servers in the network
- **No special web application server code required**
  - All code runs natively on the Windows
- **It's all in iSeries Access for Windows**
  - PC5250 emulation, Data Transfer, ODBC, etc for end users and Windows programmers
  - iSeries Navigator for iSeries operators and administrators
  - Operations Console to work with OS/400 system console
  - EZ-Setup to quickly and easily set up new iSeries servers



- **The most comprehensive iSeries native Windows connectivity solution in the market**
- **90+% of iSeries customers already using iSeries Access for Windows**



# Supports Microsoft operating environments...

## Microsoft Transaction Services (MTS)

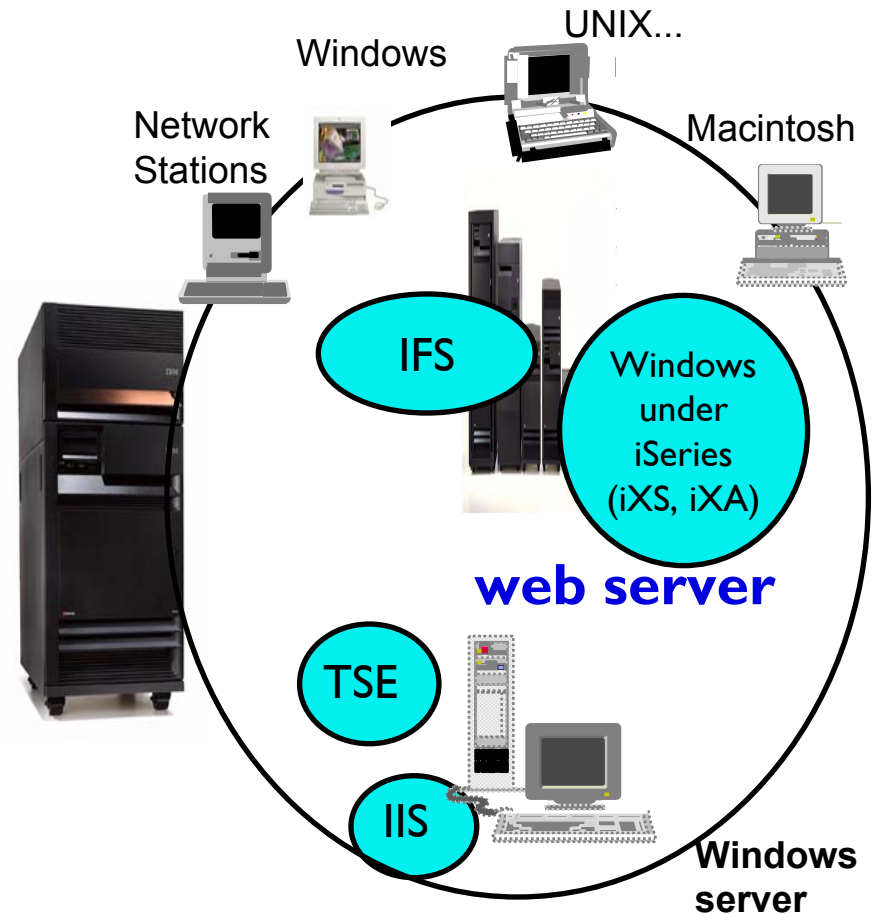
- example, an Auction House application where may need to back out transactions (ie, 2-phase commit)

## Terminal Server Edition (TSE)

- iSeries Access runs on a Windows server, and enables multiple simultaneous users (such as Network Stations, DOS, Unix, or Macintosh) work with iSeries resources

## Internet Information Services (IIS)

- Provides a Web application infrastructure for Windows Servers. iSeries Access runs on server, and fulfills requests for iSeries data (ie, ODBC, OLE DB, etc)



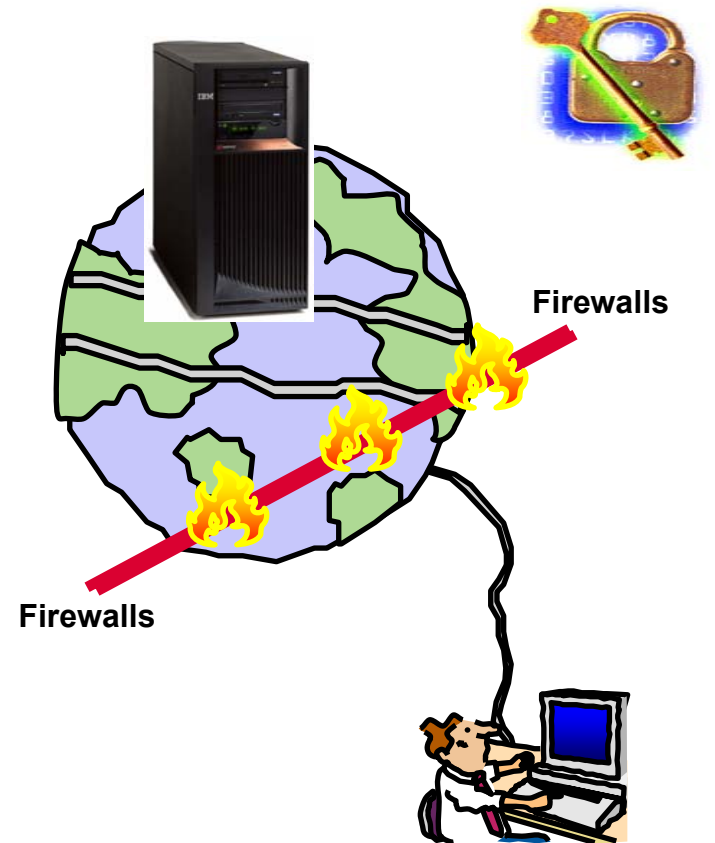
# Supports leading network and security offerings...

## Security

- **Secure Sockets Layer (SSL)**
  - Including SSL client authentication
- **Kerberos**
  - Enterprise Identify Mapping (EIM) can be used with Kerberos
- **Long passwords**

## Networking

- **Virtual Private Networks (VPN)**
  - Tunneling protocol and encryption to ensure secure communications
- **NAT (Network Address Translation)**
  - Hides System i address when on Internet



**If you do it on System i,  
you can do it with  
iSeries Access for  
Windows...**

# Windows Operating Systems

The V5R4 version of iSeries Access for Windows can be installed on:

- Windows 2000
- Windows XP Professional
- **Windows XP Tablet PCs**
- Windows 2003 Server
- **Windows Vista – December 2006**

64-bit Processors supported\*

- **Advanced Micro Devices (AMD64)**
- **Intel with EM64T**
- Intel with Itanium



V5R3 iSeries Access for Windows installs on:

- Windows **NT 4.0**, 2000, XP, 2003

V5R2 iSeries Access for Windows installs on:

- Windows **98, ME**, NT 4.0, 2000, XP, 2003

V5R1 iSeries Access for Windows installs on:

- Windows **95**, 98, and ME, NT 4.0, 2000, XP

Refer to [www.ibm.com/systems/i/software/access/supportedos.html](http://www.ibm.com/systems/i/software/access/supportedos.html) for the latest information

## Windows Vista:

- **Ultimate and Premium Editions are supported.**
- **V5R4 iSeries Access for Windows with service pack [SI25949](#) or later**

- **Refer to**

**<http://www.ibm.com/systems/i/software/access/supportedos.html>**

**and**

**Informational APARs linked from that page**

# PC5250 updated (Personal Communications 5.8)

## Key enhancements include:

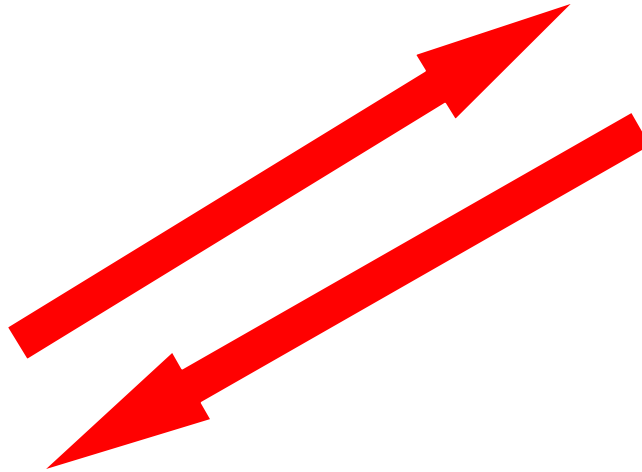
- Support to associate printer sessions with display sessions
- A new configurable, printer session window that provides host, printer, and page setup support.
- New programming interfaces (APIs) to retrieve and modify Page Setup and Printer Setup information
- Additional bi-directional enablement
- New automation objects support for the .NET environment



*The 5250 emulator (PC5250), integrated with iSeries Access for Windows, is the Version 5.8 of IBM Personal Communications*

# Data Transfer

- Copy Data to i5/OS database
- Copy Data from i5/OS database



## Data Transfer Enhancements – V5R4, V5R3, V5R2

V5R4 Enhancements	V5R3 Enhancements	V5R2 Enhancements
<ul style="list-style-type: none"> <li>▪ Support MS Excel XML Spreadsheet format</li> <li>▪ Support 128-byte column names</li> <li>▪ Support PC selection of an independent auxiliary storage pool (IASP)</li> <li>▪ Support creating and overwriting empty query result sets</li> <li>▪ Improved support for delimited names (requires V5R4 SP1)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Unicode enablement / New Unicode text file type                             <ul style="list-style-type: none"> <li>• Support UTF-8 and UTF-16 data in DB2 database tables</li> </ul> </li> <li>▪ Support larger decimal precision</li> <li>▪ Support BINARY and VARBINARY SQL data types</li> <li>▪ Support most recently used request list and last directory in Excel Add-in</li> <li>▪ Date/Time fields recognized by Data Transfer and now stored on DB2 for iSeries as 'date or time' field.</li> <li>▪ Option to convert numeric to character when transferring to iSeries DB</li> <li>▪ Support data compression for faster transfers</li> </ul>	<ul style="list-style-type: none"> <li>▪ Support for uploading more than 256 columns of data to a database file</li> <li>▪ Add-ins for Excel to upload data directly from spreadsheet</li> <li>▪ Support Excel V7 (BIFF7) and V8 (BIFF8) file formats. (Excel 97 and 2000 use V8 file formats)</li> <li>▪ Support Lotus 123 V9 file format (with 65,536 rows)</li> <li>▪ Support numeric cells within formula (Excel, Lotus 123)</li> <li>▪ Support new iSeries database functions</li> </ul>

# iSeries ODBC Driver



# ODBC

**Most popular database access method from a Windows application**

**Runs on 32-bit and 64-bit Windows O/S**



**Compliant with Microsoft ODBC Version 3 specification**

- **PC applications can now take advantage of new functions included in the 3.5 Specification.**



## ODBC Enhancements – V5R4, V5R3, V5R2

V5R4 Enhancements	V5R3 Enhancements	V5R2 Enhancements
<p><b>Requires i5/OS V5R4</b></p> <ul style="list-style-type: none"> <li>▪ 128-byte column names</li> <li>▪ Maximum SQL statement lengths of 2,097,152 bytes or 1,048,576 characters</li> <li>▪ Support for IBM Enterprise Workload Manager (eWLM) correlator</li> <li>▪ Support for lock sharing between loosely coupled transactions</li> </ul> <p><b>OS/400 V5R2 or later</b></p> <ul style="list-style-type: none"> <li>▪ Improved support for delimited names</li> </ul>	<ul style="list-style-type: none"> <li>▪ Support for BINARY / VARBINARY data types</li> <li>▪ Support for UTF-8 / UTF-16 data</li> <li>▪ Support for increased precision of decimal numbers</li> <li>▪ Enhanced MTS support</li> <li>▪ ANSI / ISO (American National Standards Institute / International Standards Organization) Core Level SQL standard of 1999</li> </ul>	<ul style="list-style-type: none"> <li>▪ 64K SQL Statements</li> <li>▪ Additional descriptor information</li> <li>▪ MTS Support (actually shipped in V5R1)</li> </ul>

# iSeries OLE DB Provider



**OLE DB**

**Microsoft-recommended  
Access for 32-bit Windows  
applications**



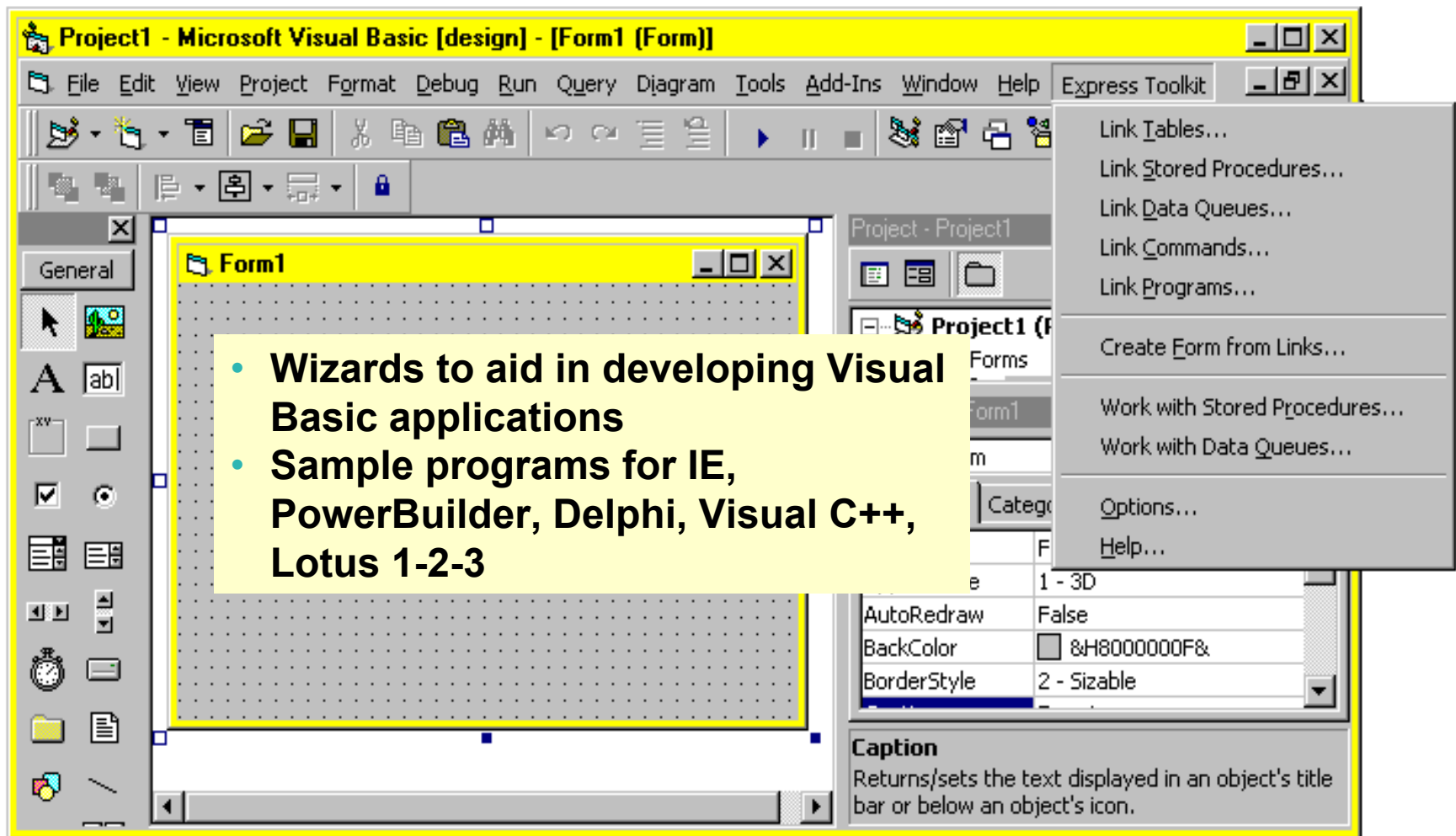
- Record level access
- Data Queues
- Stored Procedures
- SQL
- Remote Commands
- ODBC



**plus add-ins for Visual Basic**

**OLE DB Provider supports OLE DB 2.5**

# Visual Basic Programming Aides



plus add-ins for Visual Basic

# OLE DB Enhancements – V5R4, V5R3, V5R2

V5R4 Enhancements	V5R3 Enhancements	V5R2 Enhancements
<p>Requires i5/OS V5R4</p> <ul style="list-style-type: none"> <li>▪ 128 byte column names</li> <li>▪ Maximum SQL statement lengths of 2,097,152 bytes or 1,048,576 characters</li> <li>▪ Support for IBM Enterprise Workload Manager (eWLM) correlator</li> </ul> <p>OS/400 V5R2 or later</p> <ul style="list-style-type: none"> <li>▪ System naming and library list</li> <li>▪ Improved support for delimited names</li> </ul>	<ul style="list-style-type: none"> <li>▪ New SQL-only provider (IBMDASQL)               <ul style="list-style-type: none"> <li>• SQL commitment control using IBMDASQL</li> <li>• MTS support using IBMDASQL</li> </ul> </li> <li>▪ SQL               <ul style="list-style-type: none"> <li>• Custom blocking in SQL</li> <li>• SQL data compression</li> <li>• SQL package support</li> </ul> </li> <li>▪ New Record-Level Access-only provider (IBMDARLA)               <ul style="list-style-type: none"> <li>• Record-level access support for forward-only cursors and blocked reads using IBMDARLA</li> </ul> </li> <li>▪ Supports updatable cursors for the SQL dialect</li> <li>▪ Database BINARY and VARBINARY data types</li> <li>▪ Database larger decimal precision support</li> <li>▪ Unicode support               <ul style="list-style-type: none"> <li>• UTF-8 &amp; UTF-16 support</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Custom properties added               <ul style="list-style-type: none"> <li>• Force Translate (translate CCSID 65535 data)</li> <li>• Default Collection</li> <li>• Catalog Library List</li> <li>• Convert Date Time To Char</li> </ul> </li> <li>▪ Supports updatable cursors for the SQL dialect</li> <li>▪ Supports ROW-ID</li> <li>▪ 64K SQL Statements</li> <li>▪ Additional descriptor information</li> <li>▪ Is thread safe</li> <li>▪ OLE DB provider work with Windows products, such as:               <ul style="list-style-type: none"> <li>• Visual Basic 6.0 OLE DB controls and wizards</li> <li>• ADO 2.5 – ships with Microsoft Windows 2000</li> <li>• ADO 2.1 - ships with Microsoft IE 5.0 and Office/2000 products</li> <li>• An OLE DB interface is provided to support ADO recordset Seek (ADO 2.x)</li> </ul> </li> </ul>

# iSeries .NET Data Provider



# .NET

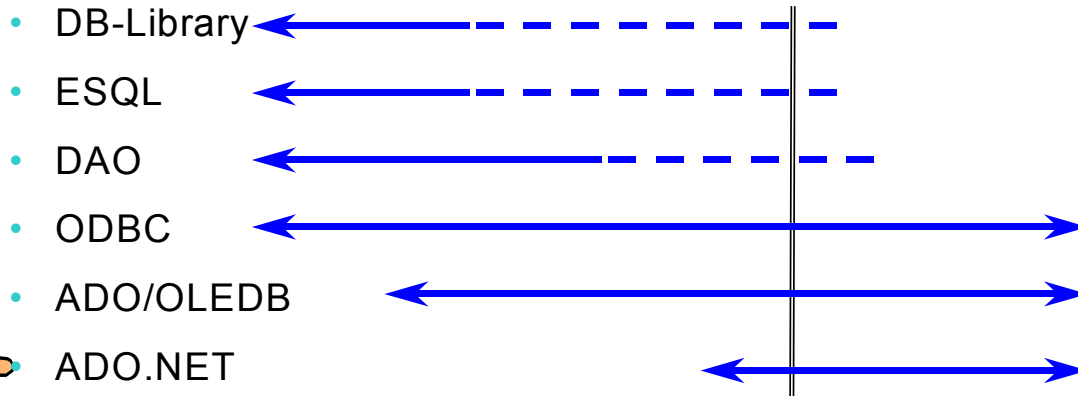
The next big wave in Microsoft technology

Runs on 32-bit and 64-bit Windows OS



## Microsoft's Technology Roadmap

Today



The .NET provider is named **IBM.Data.DB2.iSeries**.

- It allows applications using Microsoft's .NET framework to access DB2 UDB for iSeries databases.

For complete documentation of the .NET Data Provider, see *IBM DB2 UDB for iSeries .NET Provider Technical Reference*.

## .NET Enhancements – V5R4, V5R3

V5R4 Enhancements	V5R3 Enhancements
<p><b>Requires i5/OS V5R4</b></p> <ul style="list-style-type: none"><li>▪ 128 byte column names</li><li>▪ Maximum SQL statement lengths of 2,097,152 bytes or 1,048,576 characters</li><li>▪ Support for IBM Enterprise Workload Manager (eWLM) correlator</li></ul> <p><b>Requires OS/400 V5R2 or later</b></p> <ul style="list-style-type: none"><li>▪ System naming and library list</li><li>▪ Support for LOB data types</li><li>▪ Support for multiple active result sets per connection</li><li>▪ Customizable String processing for Char for Bit Data, Date, Time, Timestamp, Decimal, and Numeric data types</li><li>▪ Support for IntelliSense</li><li>▪ Additional sample programs</li><li>▪ Improved support for delimited names</li></ul>	<p><b>Requires OS/400 V5R2 or later</b></p> <ul style="list-style-type: none"><li>▪ SQL (INSERT,UPDATE, DELETE)</li><li>▪ Commitment Control</li><li>▪ Connection Pooling</li><li>▪ SQL naming</li><li>▪ Unicode</li><li>▪ Tracing</li><li>▪ Threads</li><li>▪ IASPs (multiple databases)</li><li>▪ Stored Procedure Support</li><li>▪ iSeries-specific Properties</li><li>▪ User-Defined Types</li></ul> <p><b>Supported later via SP SI15176</b></p> <ul style="list-style-type: none"><li>▪ System Naming (/)</li><li>▪ Library List</li><li>▪ Large Objects (LOBs)</li></ul>

## **.NET Data Provider Planning Statement**

**In V5R4, .NET Data Provider supports the ADO .NET 1.0 bas**

**In the next release, .NET Data Provider will support**

**Planning statements:**

**<http://www.ibm.com/systems/i/software/access/planning.html>**

# Integrating DB2 Universal Database for iSeries with Microsoft ADO.NET

Customers have been using the IBM DB2 UDB for iSeries for many years with data access technologies such as ODBC and OLE DB. The newest data access technology from Microsoft is called ADO.NET. Applications that use ADO.NET with the iSeries can work with several different .NET providers:

- **The IBM.Data.DB2.iSeries provider, a .NET-managed provider new to iSeries Access for Windows in V5R3**
- **The IBM.Data.DB2 provider, a .NET provider that works with all IBM eServer platforms in conjunction with DB2 Connect**
- **The Microsoft System.Data.OleDb provider, as a bridge to one of the OLE DB providers included with iSeries Access for Windows (IBMDA400, IBMDASQL, and IBMDARLA)**
- **The Microsoft System.Data.Odbc provider, as a bridge to the ODBC driver included with iSeries Access for Windows**

This IBM Redbook shows customers how to use ADO.NET effectively to harness the power of DB2 UDB for iSeries, showing examples, best practices, pitfalls, and comparisons between the different ADO.NET data providers.



# iSeries Access for Windows Installer – Technology Preview

Available for customers who prefer to use the Microsoft Windows Installer technology.

- English National Language Version 2924 only
- Can be used on Microsoft Windows XP, Windows 2000, and 32-bit version of Windows Server 2003.

The screenshot shows the IBM iSeries Access for Windows Installer Technology Preview web page. The page features the IBM logo at the top left, a search bar, and navigation links for Home, Products, Services & solutions, Support & downloads, and My account. The main content area is titled "iSeries Access" and includes a sub-header "Windows® Installer Technology Preview". The page describes the Technology Preview as an installation image using the Windows Installer technology for iSeries Access for Windows. It provides a Table of Contents with links to Overview, What's new in this Preview?, Download the Technology Preview, Install the Technology Preview, and Feedback and report problems. The Overview section states that the Technology Preview is provided for customers who prefer to use the Windows Installer technology. The Important notes section lists the supported Microsoft operating systems: Windows XP Professional, Windows 2000, and the 32-bit version of Windows Server 2003. The page also includes a sidebar with navigation links such as iSeries Access Home, Announcements, Order/Upgrade, Products/Functions, Downloads, Service Packs (Fixes), Service Dates, Information APARs (Support Statements), FAQs, Windows(R) Operating Systems (2000/Me/XP/etc), Technical Support, Articles, IBM Library, Toolkit, iSeries Information Center, and Related links.

[http://www.ibm.com/systems/i/software/access/windows/tech\\_preview.html](http://www.ibm.com/systems/i/software/access/windows/tech_preview.html)

# Windows Installer Technology

- **V5R4 iSeries Access for Windows adds Windows Installer capability**
  - Industry standard for installations on the Windows platform
- **Provides standard mechanisms to...**
  - manage installations
  - customize install packages with “transforms”
  - set install policies
  - install service packs
  - do silent installations more simply – no more response files!
- **Deploy to multiple desktops with several deployment systems, such as Active Directory and Systems Management Server**

## Planning Statement

- **The V5R4 implementation is offered as a Technology Preview**
- **In the next release, iSeries Access for Windows will support the Windows Installer technology with all components and in all supported languages**

### **Planning statements:**

**<http://www.ibm.com/systems/i/software/access/planning.html>**

# Technology Preview

- **Level of code is V5R4 GA iSeries Access for Windows with the latest service pack integrated into the installation image**
- **Supports the 32-bits versions of Windows XP, Windows 2000, and Windows Vista**
- **Available as a web download**

## **Differences between Tech Preview and Next Release:**

- **iSeries Navigator components not included**
- **English only**
- **Check Service Level not supported**

**NOTE: These limitations are removed in the generally available product in the next release**

# How to get the Tech Preview

- [http://www.ibm.com/systems/i/software/access/windows/tech\\_preview.html](http://www.ibm.com/systems/i/software/access/windows/tech_preview.html)
  - > Download
- Select the latest service level available.

Software >  
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Search [Search tips](#)

1 - 2 of 2 results

Limit to:  and

and  and sort by:

Search results

[Show descriptions](#) | [Hide descriptions](#)

Name	Version	Type	Release date	Size	Operating system
1. <a href="#">iSeries Access for Windows Technology Preview (Includes service pack SI25949)</a>	5.4.04	Beta	28 Dec 2006	29MB	i5/OS V5 OS/400 V5
2. <a href="#">iSeries Access for Windows Technology Preview (Includes service pack SI24893)</a>	5.4.03	Beta	29 Aug 2006	29MB	i5/OS V5 OS/400 V5

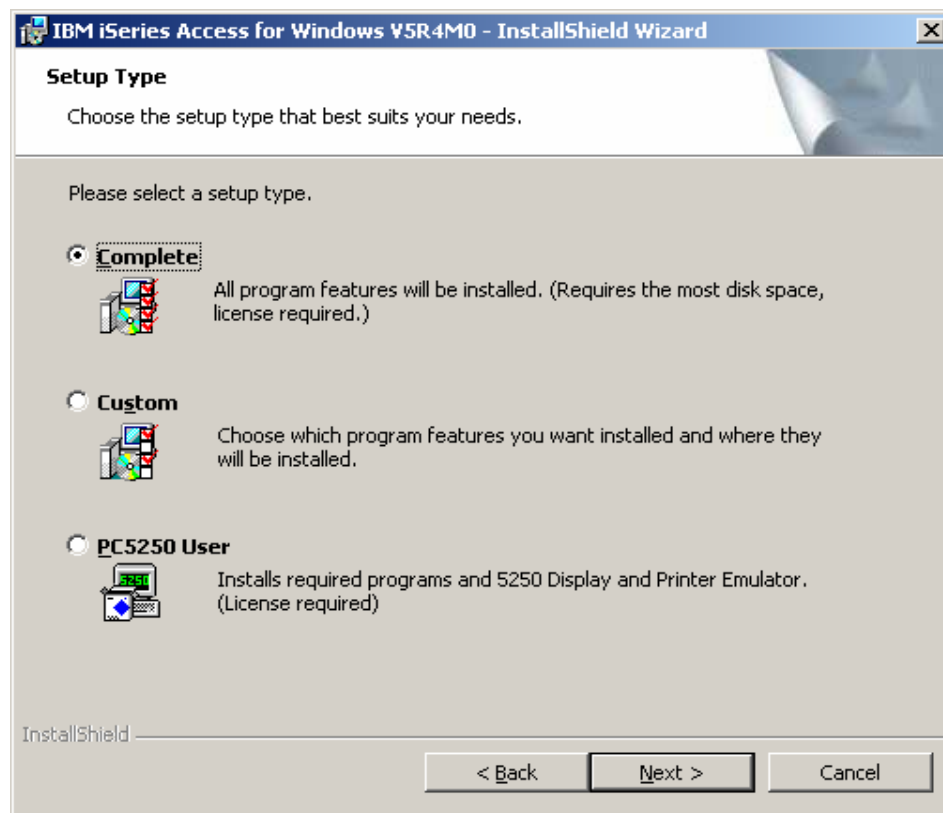
1 - 2 of 2 results

# What is the MSI package?

- **A Windows Installer package is made up of an MSI file and source files**
- **An MSI file is a relational database. The tables within the MSI database describe:**
  - **installation logic, such as the sequence of actions**
  - **metadata about the resources that are to be installed**
- **“Feature”:**
  - **An application’s functions are separated into features (components)**
  - **Features can be installed independently**
- **“Public properties”:**
  - **Variables used at install time that can be set by the end user through the command line or in transforms**
  - **Define installation settings, such as target directory, type of install, list of features to be installed**
- **“Transform”:**
  - **The mechanism to customize the installation**

# Installation Options

- **Complete**
  - **Installs everything**
- **Custom**
  - **Allows end user to select what to install**
- **PC5250 User**
  - **Only 5250 emulation installed**



# Installation Types

## New installation of iSeries Access for Windows

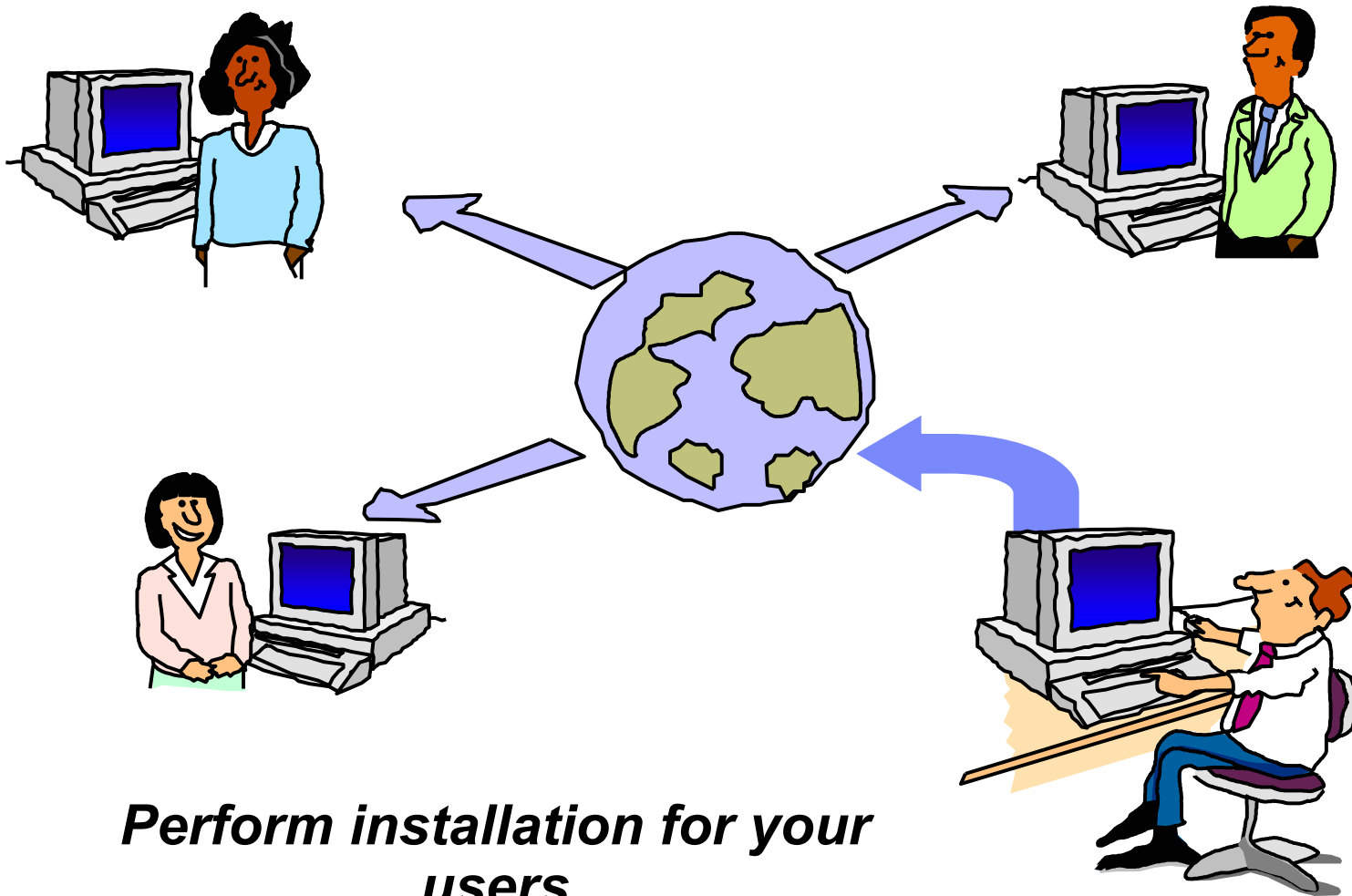
### Upgrade Install

- From one release of iSeries Access for Windows to the next
- Intend to always support N-2 to N
- Default is to upgrade to new release with same set of components
- Can add additional features during upgrade
- Can remove existing features during upgrade process

### Maintenance Install

- **Modify**
  - Add and remove individual features
  - New features are installed with the latest service pack level applied
- **Repair**
  - Reinstalls the product
  - Recreates files/registry entries that were accidentally deleted





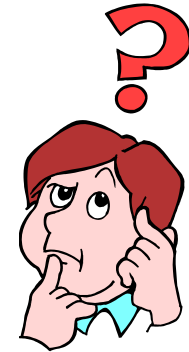
***Perform installation for your users***

**Transforms:**

**Customizing the installation package**

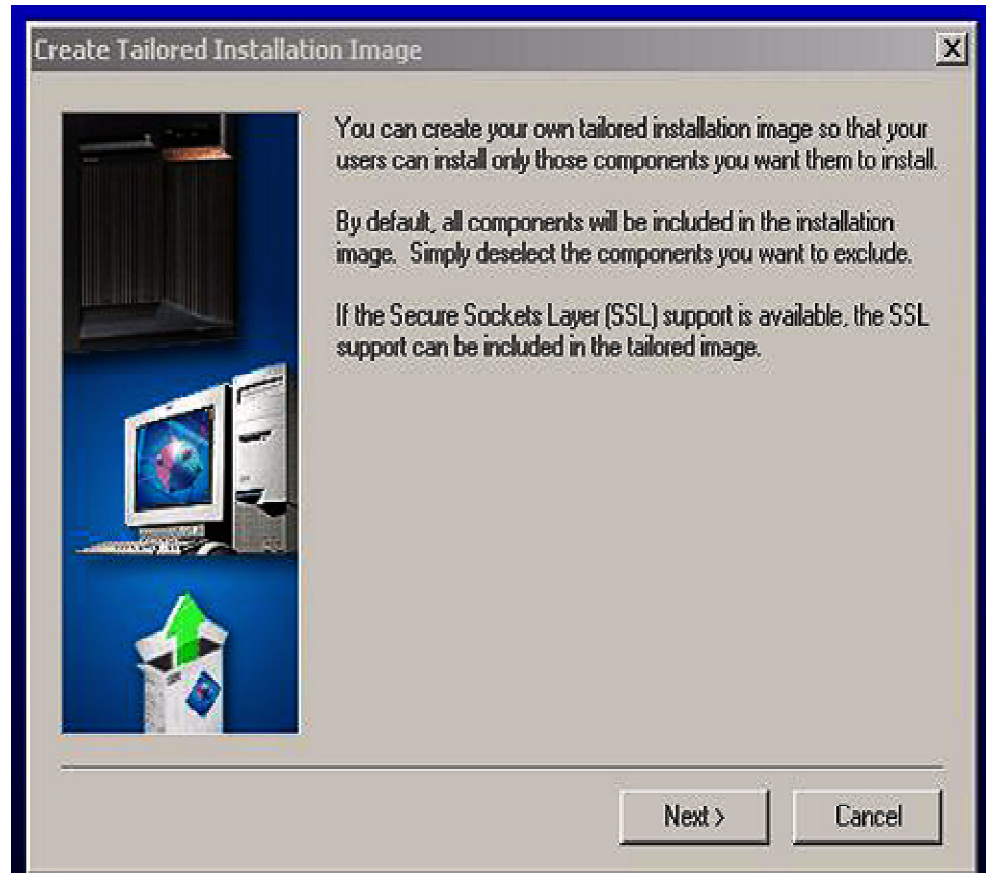
## Transforms

Would you like to control which iSeries Access for Windows features your users install?



You can use **Transforms** to:

- Modify the MSI package by excluding the unwanted features
- Apply the transform to installations across your network
- Users can easily install iSeries Access functions by **selecting a single option**



# What are Transforms?

## The means to customize the installation package

- A transform is a file that describes modifications to the MSI DB
  - Applied at install time
- “Tailored installation” is not necessary

## Allow administrators to change the default settings of the installation package.

- Create customizations for different groups in the organization by defining different combinations of features.
- Pre-select features, deselect features, hide features from the features selection tree on custom installation

## Many tools are available to create transforms

- InstallShield
- Microsoft Orca is available at no cost

# What are Transforms?



- Transforms are applied at install time
- The original MSI file is not altered
- The transform file is saved along with the MSI file, and gets applied every time an install task is started

# Steps to create your own transform

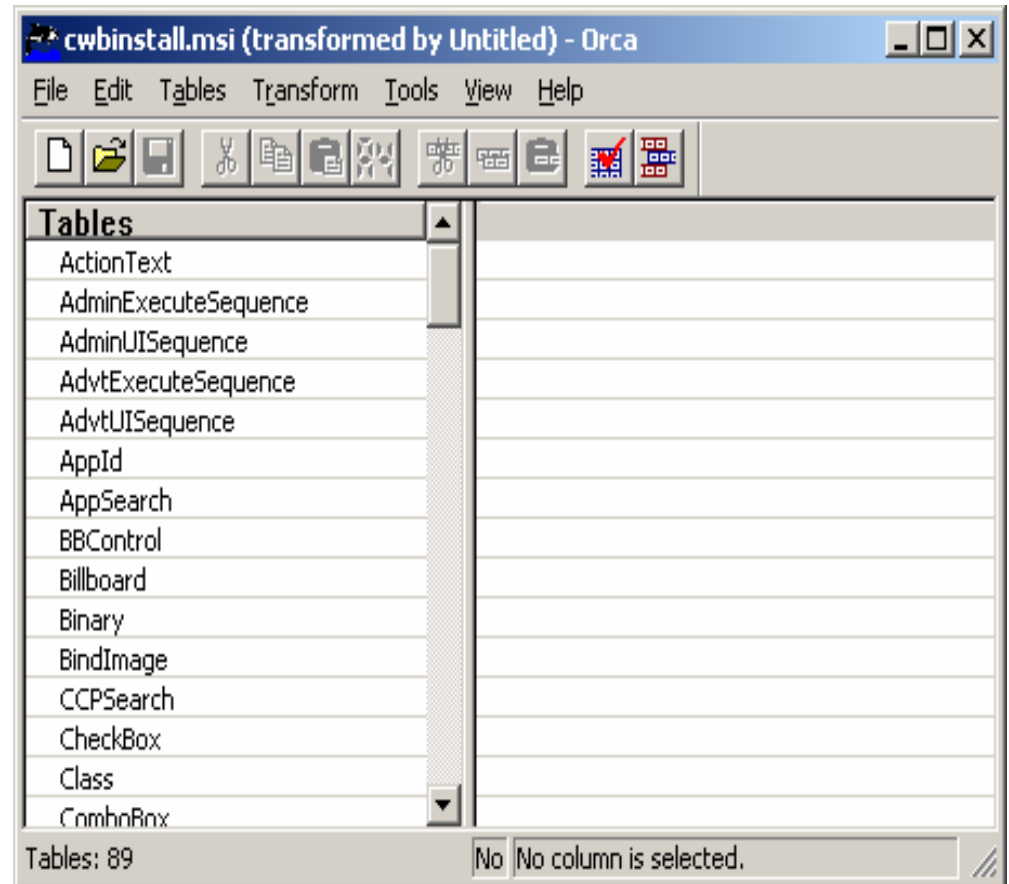
## 1. Open cwbinstall.msi in transform mode

**Open Orca.**

**From the File menu, select Open and browse for [cwbinstall.msi](#).**

**From the Transform menu, select New Transform.**

**This will turn Orca into Transform mode, and now you can start modifying the MSI file.**



# Steps to create your own transform (continued)

## 2. Modify the tables

From the left pane, select the table to modify.

In the right pane, you can modify an existing field's value, as well as add and remove rows.

Tables with modifications are indicated by a green mark next to them.

In the example, we are changing the Level of feature ssl from 125 to 100 so it gets preselected.

The screenshot shows the Orca MSI editor window titled "cwininstall.msi (transformed by Untitled) - Orca". The interface includes a menu bar (File, Edit, Tables, Transform, Tools, View, Help) and a toolbar. The main area is divided into two panes. The left pane, titled "Tables", lists various tables, with "Feature" selected and highlighted in blue. The right pane, titled "Feature", displays a table of features. The "ssl" feature is selected, and its "Level" value is highlighted in yellow and circled in red, showing a change from 125 to 100. The status bar at the bottom indicates "Tables: 89", "Feature - 25 rows", and "Level - Short".

Tables	Feature	Feature Parent	Title	Displav	Level
Directory	emus	emuc	Standa...	P 0	1
DrLocator	emut	emuc	Traditi...	T 0	1
DuplicateFile	emuk	emuc	Korean...	K 0	1
Environment	emup	emuc	Simplifi...	S 0	1
Error	optfeatures		Option...	P 4	100
EventMapping	dir	optfeatures	Directo...	A 6	100
Extension	irc	optfeatures	Incomi...	P 8	100
Feature	prtdrivers		Printer...	i. 36	125
FeatureComponents	afp	prtdrivers	AFP Pri...	U 32	125
File	scs	prtdrivers	SCS Pri...	U 34	125
FileSFPCatalog	oc		Operat...	P 38	101
Font	ole	DataAccess	OLE D...	I. 22	100
ISDFLInfo	DataAccess		Data A...	P 11	100
ISSelfReg	vbw	ole	Visual ...	P 20	125
Icon	toolkit		Progra...	P 40	125
IniFile	hld	toolkit	Heade...	P 40	125
IniLocator	ssl		Secure...	P 30	100
InstallExecuteSeque...	viewer		AFP W...	U 26	100
InstallUISequence	lotus123	DataAccess	Lotus ...	P 24	125
IsolatedComponent	dt	DataAccess	Data T...	P 12	100
LaunchCondition	dtexcel	dt	Data T...	P 14	100
ListBox	odbc	DataAccess	ODBC	P 16	100
ListView	req		Requir...	P 2	1
LockPermissions					
MIME					

## Steps to create your own transform (continued)

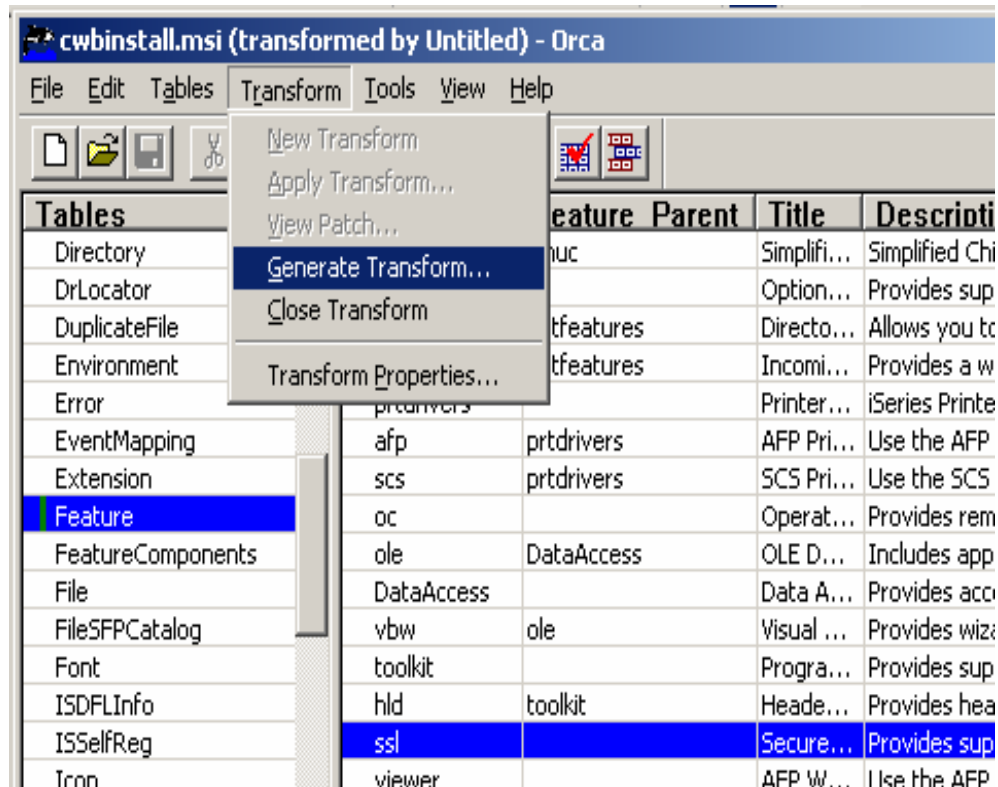
### 3. Generate the transform file

From the Transform menu, select **Generate Transform**.

Give your transform a meaningful name.

Transforms are created with a file extension of **.MST**.

Make sure the transform file is saved to the install image directory.



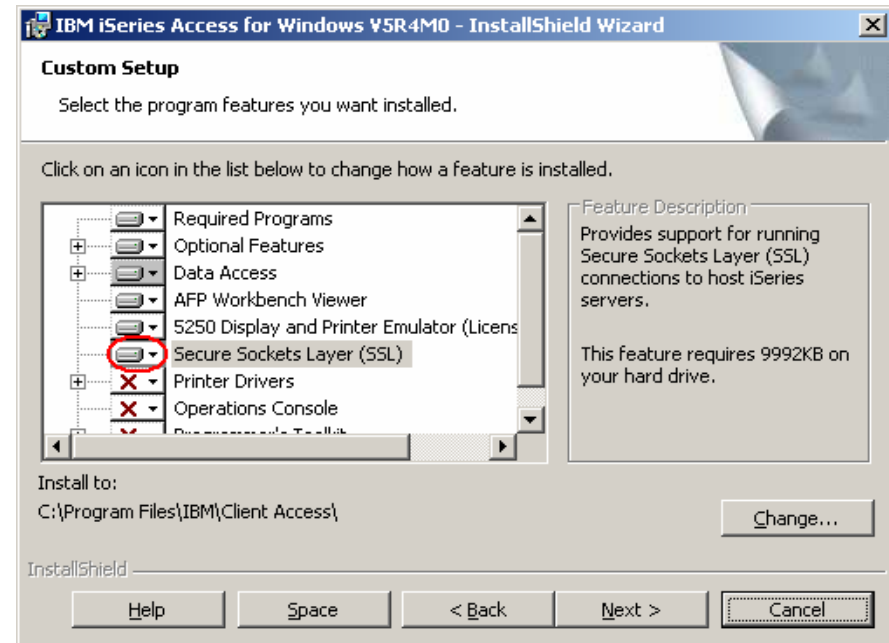
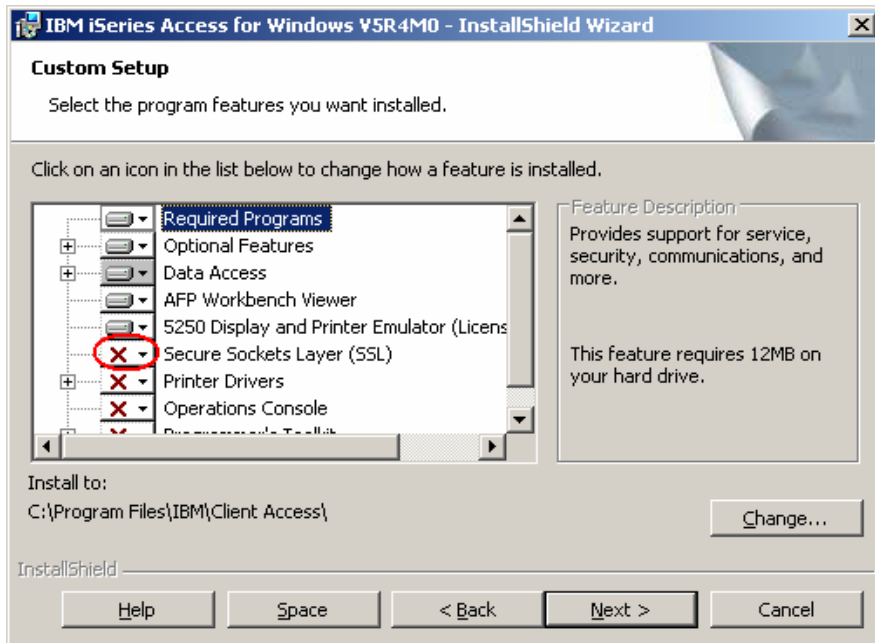


# Apply the transform

- In a command prompt window, type **setup /vTRANSFORMS=MyTransform.mst**

```
\> setup.exe
```

```
\> setup.exe  
/vTRANSFORMS=MyTransform.mst
```



Refer to the [Appendix](#) for transform examples:

- 1) Install with only ODBC driver and printer drivers**
- 2) Install with only PC5250 predefined workstation file**

## Servicing the Technical Preview Image

- **Servicing an installation made with the Technical Preview is different than servicing the GA V5R4 installation:**
  - Service packs are only provided as a full image in the Technical Preview web site
  - Updates (PTFs) made to the System i cannot be rolled out to an installation done with the Technical Preview since installation media is different
- **In order to install a Windows Installer service pack:**
  - Go to the Technical Preview web site and download the latest service pack available: [ibm.com/systems/i/software/access/windows/tech\\_preview.html](http://ibm.com/systems/i/software/access/windows/tech_preview.html)
  - Launch iSeriesAccessWI.exe to unzip the full image.
  - Launch setup.exe. Any transforms applied previously will be kept. There's no need to copy the .MST file to the service pack directory.
- **Since there's no such concept of tailored image, there's no need to run a tool such as PTFFORM.**
- **New users can use the service pack image as the source for new installations. Transforms must be applied for new installations.**

# User Interface Levels

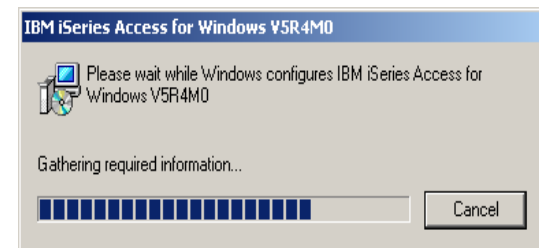
– In Windows Installer, an installation's **user interface** can have several **levels**:

<i>Level</i>	<i>Command line option</i>	<i>UILevel value</i>	<i>Description</i>
<b>Full (default)</b>	<b>/qf</b>	<b>5</b>	<b>The Install Wizard is launched. User can change all installation options.</b>
<b>Basic</b>	<b>/qb</b>	<b>3</b>	<b>Only progress bar and error messages are shown. User still can cancel instalation.</b>
<b>Silent</b>	<b>/qs</b>	<b>2</b>	<b>No dialogs displayed. There's no indication about installation in progress.</b>

## Full user interface



## Basic user interface



## User Interface Levels (continued)

By default, launching `setup.exe` will initiate with full user interface.

The level of user interface can be changed in several ways:

- **At the command line**
  - Type `setup /v" ... q[f|b|n]"`
- **In setup.ini:**
  - Append the string `/q[f|b|n]` to the `CmdLine` key.
- **With a transform**
  - Create a transform that modifies the value of property `UILevel` in the Property table.

# Deploy iSeries Access for Windows using Active Directory

**iSeries Access for Windows can be deployed using Active Directory**

**Active Directory is Microsoft's directory service**

- **Windows 2000 Server and Windows Server 2003**

**Some of the goals of Active Directory are:**

- **Centralized management of resources, services, and users on a network**
- **Access control to resources**
- **Central software distribution to PCs in the network**

# Deploy iSeries Access for Windows using SMS

**Microsoft Systems Management Server (SMS) is software to centrally managing client computers and servers.**

**Some features of SMS are:**

- **Hardware and software inventory**
- **Software distribution**
- **Software metering**
- **Security**

**SMS enables scheduled installations, deployment based on software or hardware criteria and monitoring.**

**Links:**

- **SMS concepts:**

**<http://www.microsoft.com/technet/prodtechnol/sms/sms2003/cpdg/default.mspx?mfr=true>**

- **Distributing Windows Installer packages**

**<http://www.microsoft.com/technet/sms/20/deplymsi.mspx>**

## Install from a Network Share

**You can share an installation image residing on the network, either at your NetServer or a Windows share.**

**Your desktop users can map a drive to the network share.**

**Users then will run setup.exe from the network drive to start iSeries Access for Windows installation.**

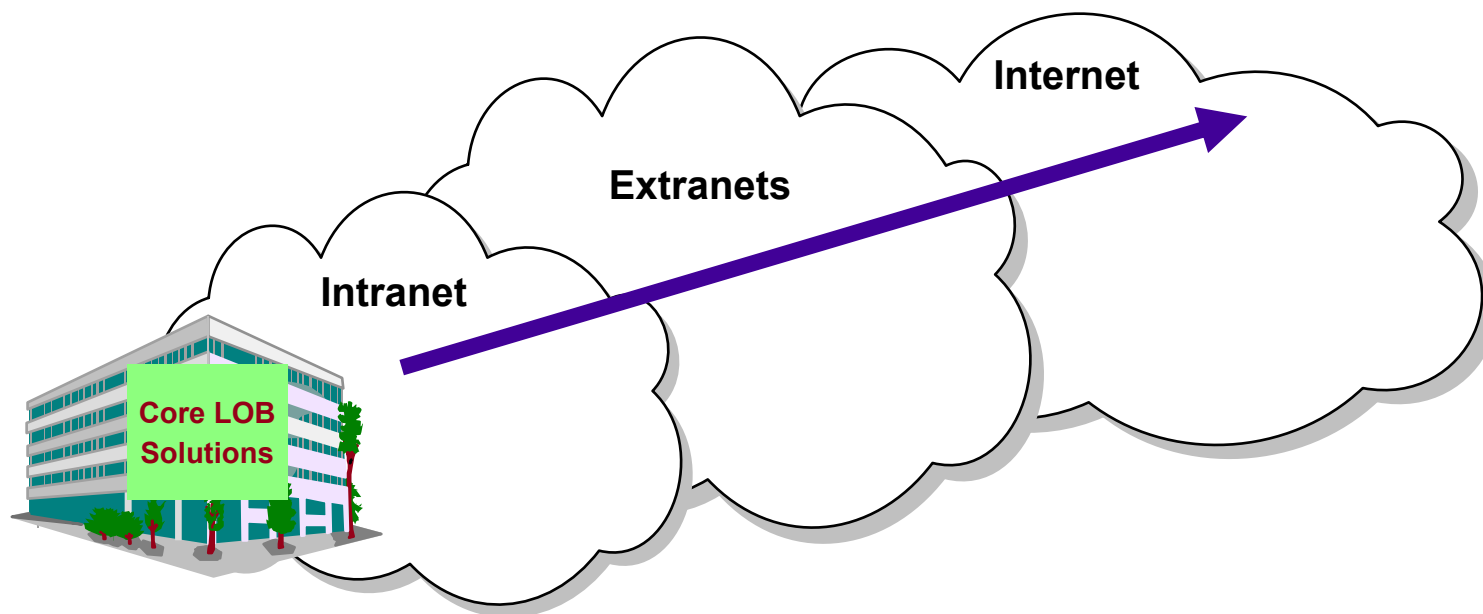
**If one or more transforms must be applied:**

- **Make sure that the transform file(s) are located in the source directory.**
- **Instruct your users to type setup.exe /v/"TRANSFORMS=transform1.mst, transform2.mst..." or**
- **Modify setup.ini to include any command options in the CmdLine key.**



# Questions on Windows?

## Extend System i applications to the Web



Customers are looking for **no network desktop administration** and **easy access** to iSeries information:

- For a variety of desktop users
- For users with no iSeries skills

# What is iSeries Access for Web?

*End users can leverage business information, applications, and resources across an enterprise by extending the iSeries resources to the client desktop through a web browser*

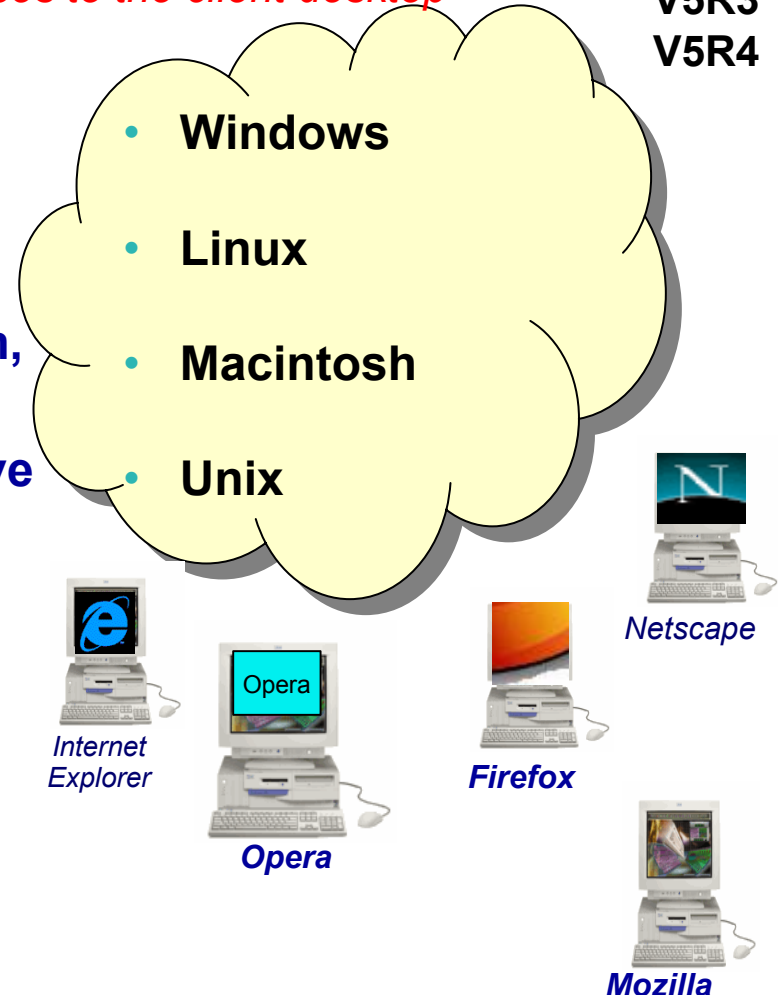
**i5/OS  
V5R3  
V5R4**

## Provides access to iSeries through a browser

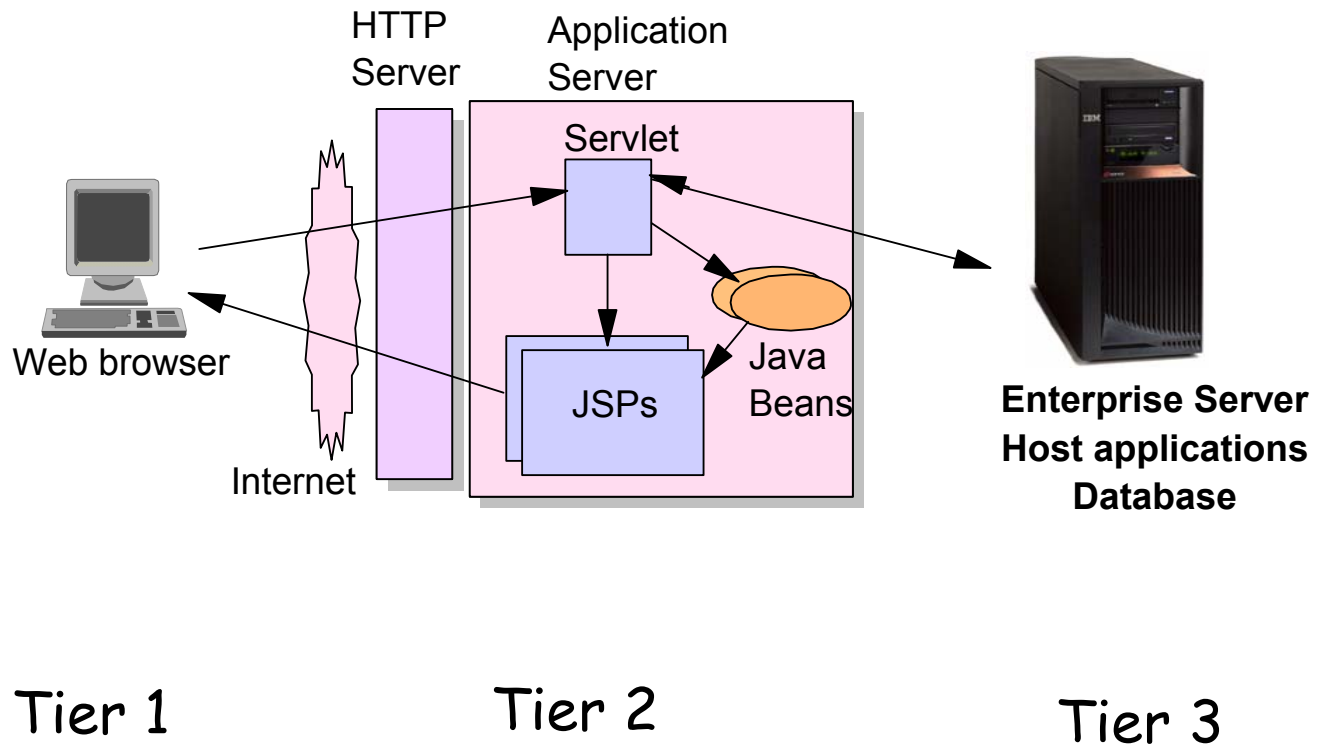
- **5250 access**
- **Access to database, integrated file system, printers, output queues, jobs**
- **Can run batch commands and send/receive messages**

## It has the following advantages:

- **Is server based**
- **Requires only a browser on the client, no configuration required at desktop, no applets installed on desktop**
- **Uses industry standard protocols - HTTP, HTTPS and HTML**



# First you need a web application server



# Supported Web Application Servers

The iSeries Access for Web servlet code can be used with any of the following web application servers:

- **Integrated web application server – available October 10, 2006**
- **WebSphere® Application Server V6.1 and V6.0 – Express for i5/OS**
- **WebSphere Application Server V6.1 and 6.0 Base and Network Deployment**
- **WebSphere Application Server V5.1 - Express for iSeries**
- **WebSphere Application Server V5.0 - Express**
- **WebSphere Application Server V5.1 and 5.0 Base and Network Deployment Editions**
- **ASF Tomcat**

The iSeries Access for Web portlet code can be used with any of the following portal servers.

- **IBM Workplace Services Express V2.6 (V5R4 iSeries Access for Web)**
- **IBM Workplace Services Express V2.5**
- **WebSphere Portal for Multiplatforms V6.0**
- **WebSphere Portal for Multiplatforms V5.1.0.1**
- **WebSphere Portal Express for Multiplatforms V5.0.2**
- **WebSphere Portal Express Plus for Multiplatforms V5.0**

PTFs required for latest web app server and portal support:

<http://www.ibm.com/systems/i/software/access/web/servicepacks.html>

# 4Q2006 Announcement: “System i Web Enablement Made Easy”

**Two pieces related to iSeries Access for Web:**

- 1. iSeries Access for Web supports the use of a Web application server integrated with i5/OS.**
  - **Configure iSeries Access for Web without having to install or configure a Web Application server**
  
- 2. Web Enablement for i5/OS: Express Runtime Environment**
  - **Auto configure of Web servers, components, applications using WAS – Express V6.0**
  - **iSeries Access for Web is part of the environment**

**Refer to:**

**<http://www.ibm.com/systems/i/software/access/web/servicepacks.html>**

# **Integrated Web application server**

## **What is it, does iSeries Access for Web support it?**

### **What is the i5/OS integrated Web application server?**

- A web application engine much like ASF Tomcat
- Uses minimal system resources, similar to ASF Tomcat
- Minimal effort by an Administrator to maintain
- V5R4 is the last release i5/OS will contain ASF Tomcat

### **How is it packaged?**

- 5722-DG1 IBM HTTP Server for i5/OS
- Available in the DG1 group PTF  
V5R4 SF99114 level 6 or later

### **iSeries Access for Web support**

- Only V5R4 iSeries Access for Web supports the i5/OS integrated Web application server
- V5R4 iSeries Access for Web can be installed and is supported on...  
V5R3 i5/OS  
V5R4 i5/OS

# Integrated Web application server

## iSeries Access for Web within this environment

**To use iSeries Access for Web within the i5/OS integrated Web application server:**

- Stop the Web Administration for i5/OS  
ENDTCPSVR SERVER(\*HTTP) HTTPSVR(ADMIN)
- Load/apply latest 5722-DG1 group PTF (review cover letters for any additional information)  
V5R4 SF99114
- Load/apply latest V5R4 iSeries Access for Web PTF  
SI25551 or later
- Configure iSeries Access for Web  
QSH  
cd /QIBM/ProdData/Access/Web2/install  
cfgaccweb2 -appsvrtype \*INTAPPSVR
- Start the Web Administration for i5/OS  
STRTCPSVR SERVER(\*HTTP) HTTPSVR(\*ADMIN)
- Start preconfigured HTTP web server  
STRTCPSVR SERVER(\*HTTP) HTTPSVR(IWADFT)
- Open a browser to iSeries Access for Web using preconfigured HTTP:port  
<http://<system name>:2020/webaccess/iWAMain>

**Done!**



IBM Systems > System i >

# WebSphere Application Server

for i5/OS

<a href="#">WebSphere Home</a>
<a href="#">What's New</a>
<a href="#">About WebSphere</a>
<a href="#">Ordering</a>
<a href="#">Documentation</a>
<a href="#">FAQs</a>
<a href="#">Business Solutions</a>
<a href="#">Samples</a>
<a href="#">PTFs</a>
<a href="#">Performance</a>
<a href="#">Coexistence</a>
<a href="#">Migration</a>
<a href="#">Forum</a>
<a href="#">Newsletter</a>
<a href="#">Related Resources</a>

## Features

WebSphere Application Server Version 6.1 for i5/OS is announced. To find out more about the new version or any other of the supported versions — please click on the links below:

### Version 6.1

- [IBM WebSphere Application Server V6.1 for i5/OS](#)
- [IBM WebSphere Application Server for Developers V6.1 for i5/OS](#)
- [IBM WebSphere Application Server Network Deployment V6.1 for i5/OS](#)
- [IBM WebSphere Application Server – Express V6.1 for i5/OS](#)

### Version 6.0

- [IBM WebSphere Application Server V6.0 for OS/400](#)
- [IBM WebSphere Application Server for Developers V6.0 for OS/400](#)
- [IBM WebSphere Application Server Network Deployment V6.0 for OS/400](#)
- [IBM WebSphere Application Server – Express V6.0 for OS/400](#)

### Version 5.1

- [IBM WebSphere Application Server V5.1 for iSeries](#)
- [IBM WebSphere Application Server for Developers V5.1 for iSeries](#)
- [IBM WebSphere Application Server Network Deployment V5.1 for iSeries](#)
- [IBM WebSphere Application Server – Express for iSeries V5.1](#)

### Version 5.0

- [IBM WebSphere Application Server V5.0 for iSeries](#)
- [IBM WebSphere Application Server Network Deployment V5.0 for iSeries](#)
- [IBM WebSphere Application Server – Express for iSeries V5.0](#)

## Need directions?



→ [iSeries Developer roadmap](#)

[An Independent Analysis of the iSeries Developer Roadmap - Updated for 2006 \(1.4MB\)](#)

[The Business Benefits of iSeries Application Modernization \(183KB\)](#)

[Get Adobe® Reader®](#)

## Emerging Technology

→ [Dynamic web site development for the non-technical business user.](#)

## Pilot Pricing Program

→ [IBM Software Pilot Pricing Program for IBM eServer i5 520 Systems](#)



Local intranet

# Is your AS/400 or iSeries ready?

**Under 512Mb  
Under 300 CPW**

**Bxx, Cxx, Dxx, Exx, Fxx  
S10, S01, Pxx  
S20 / #2161, #2163  
100, 150  
170 /  
#2159,#2160,#2164,#2289,#2290,#2291,#2292,#2407,  
#2408,#2409  
200, 20S, 250  
270 / #2422,#2423, #2424,#2248,#2452,#2454**

**3xx, 4xx  
500, 510, 50S  
53S / #2154  
530 / # 2150, # 2151  
600  
620 / #2175,#2179,#2180,#2181  
720 / #2061  
820 / #2425,#2426,#2457,#2456**

**512Mb–1GB  
300-500 CPW**

**S30 / #2257  
S20 / #2170,#2165  
170 / #2176,#2183,#2383,#2384,#2385,#2386  
270 / #2250,#2431  
53S / #2155  
530 / #2150,#2151  
600 / All  
620 / #2175,#2179,#2180,#2181  
720 / #2161  
820 / #2425,#2426,#2456,#2457**

**WAS Express with few  
concurrent users**

**Over 1GB  
And  
500 CPW**

**SB1,SB2,SB3,S20(1),S30(1),S40,170 / #2388  
270 / #2252,#2253,#2432,#2434  
53S / #2156,#2157  
530 / #2153,#2162  
730,740,800 / #2464  
810,825,870,890,i5 520,i5 550,i5 570,i5 595 / All**

**Complex web  
applications with many  
concurrent users**

[http://www-1.ibm.com/servers/eserver/iseries/software/websphere/lay\\_foundation.html](http://www-1.ibm.com/servers/eserver/iseries/software/websphere/lay_foundation.html)

# Performance Considerations...

Use the **IBM Systems Workload Estimator** at  
<http://www-912.ibm.com/wle/EstimatorServlet>

IBM eServer Workload Estimator

Version: 2005.4.fix.1  
14-Dec-05  
www-912

**Workload Selection** | **Workload Definition** | **Selected System** | **Help/Tutorials**

- Download PDF
- Printable Version
- Choose Base System
- Modify System
- External Storage
- Call Me Now
- Edit Estimation Info
- Options
- Change Growth Factors
- Save all Workloads

### Selected System

	Immediate Solution	Growth Solution
Available	93.5%	90.2%
HATS #1	6.5%	9.8%

The 520-8950/7450 can handle the defined workloads **NOW**.

It can also handle the specified growth.

Model/Feature:	520-8950/7450	500/30
Number of Systems:	1	1
Processor CPW:	500	500
5250 OLTP CPW:	30 (24% utilized)	30 (35% utilized)

# System i Software Requirements



Product Number	Product Name	Option	\$
5722-SS1	<b>V5R3 iSeries Access for Web: V5R2 OS/400 or V5R3 i5/OS V5R4 iSeries Access for Web: V5R3 and later i5/OS</b>	<b>Base</b>	<b>w/HW</b>
5722-SS1	<b>I5/OS - Extended Base Directory Support</b>	<b>3</b>	<b>N/C</b>
5722-SS1	<b>I5/OS - AFP Compatibility Fonts</b>	<b>8</b>	<b>N/C</b>
5722-SS1	<b>I5/OS - Host Servers</b>	<b>12</b>	<b>N/C</b>
5722-SS1	<b>Operating System/400 QShell Interpreter</b>	<b>30</b>	<b>N/C</b>
5722-SS1 5722-AC3	<b>If you plan to use Secure Sockets Layer (SSL): OS/400 Digital Certificate Manager Cryptographic Access Provider (128-bit)</b>	<b>34</b>	<b>N/C N/C</b>
5722-DG1	<b>IBM HTTP Server for iSeries</b>	<b>Base</b>	<b>N/C</b>
5722-JV1	<b>Developer Kit for Java Developer Kit for Java Version 1.2 Developer Kit for Java Version 1.3 Developer Kit for Java Version 1.4 (Check WebSphere doc for required version)</b>	<b>Base 3 5 6</b>	<b>N/C N/C N/C N/C</b>
5722-JC1	<b>Toolbox for Java</b>	<b>Base</b>	<b>N/C</b>
5722-TC1	<b>TCP/IP Connectivity Utilities for iSeries</b>	<b>Base</b>	<b>N/C</b>

# System i Software Requirements (continued)

Product Number	Product Name	Option	\$
<b>5722-XW1</b>	<b>iSeries Access Family</b>	<b>Base</b>	<b>\$</b>
<b>5722-XH2</b>	<b>iSeries Access for Web</b> <ul style="list-style-type: none"> <li>• Ships with 5722-XW1 iSeries Access Family</li> <li>• V5R3 iSeries Access for Web runs on OS/400 V5R2 and i5/OS V5R3</li> <li>• V5R4 iSeries Access for Web runs on i5/OS V5R3 and V5R4</li> </ul>	<b>Base</b>	<b>part of XW1</b>
<b>5722-IP1</b>	<b>IBM Info Print Server</b> (Optional -- enables best PDF output: - <u>is not</u> required to view PDF output - <b>is</b> required for V5R4 PDF Printer support)	<b>Base</b>	<b>\$</b>

# System i Software Requirements (continued)

Product Number	Product Name	Option	\$
<b><u>One, or more, of the following web servers</u></b>			
5733-W61	WebSphere Application Server V6.1 for i5/OS (all three editions)	See documentation	
5733-W60	WebSphere Application Server V6.0 for OS/400 (all three editions)		
5722-E51	WebSphere Application Server V5.1 - Express for iSeries		
5733-W51	WebSphere Application Server V5.1 for iSeries (Base and ND)		
5722-IWE	WebSphere Application Server V5.0 - Express for iSeries		
5733-WS5	WebSphere Application Server V5.0 for iSeries (Base and ND)		
5722-DG1	Apache Software Foundation Tomcat		
5722-DG1	Integrated Web Application Server		
*	WebSphere Portal for iSeries (Express and Express Plus) V5.0.2.2		
*	WebSphere Portal Enable for Multiplatforms V5.1.0.1		
*	WebSphere Portal V6.0		
*	IBM Workplace Services Express V2.5, V2.6		

Refer to the documentation for the individual web serving environments additional requirements that may not be listed above.

WebSphere	<a href="http://www.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/">http://www.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/</a>
ASF Tomcat	<a href="http://www.ibm.com/servers/eserver/iseries/software/http/">http://www.ibm.com/servers/eserver/iseries/software/http/</a>
Portal V5.0.2.2	<a href="http://publib.boulder.ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html">http://publib.boulder.ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html</a>
Portal V5.1.0.1	<a href="http://publib.boulder.ibm.com/infocenter/wp51help/index.jsp">http://publib.boulder.ibm.com/infocenter/wp51help/index.jsp</a>
Portal V6.0	<a href="http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp">http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp</a>
Workplace V2.5	<a href="http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp">http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp</a>
Workplace V2.6	<a href="http://publib.boulder.ibm.com/infocenter/wseic/v2r6/index.jsp">http://publib.boulder.ibm.com/infocenter/wseic/v2r6/index.jsp</a>

# iSeries Access for Web – V5R4

## New look for the *Servlet* version

The screenshot displays the iSeries Access for Web interface. At the top, it shows the user 'User: CMINER' and the system 'System:'. The main heading is 'Welcome to iSeries Access for Web'. A navigation menu on the left includes 'My Home Page', 'My Folder', 'Print', 'Messages', 'Jobs', '5250', 'Database', 'Files', 'Command', 'Download', 'Customize', and 'Other'. Below this is a 'Related Links' section with links to 'iSeries Access for Web', 'iSeries Access', 'iSeries Navigator', 'iSeries Information Center', and 'iSeries Resource Library'. The main content area is titled 'Getting Started' and contains three columns: 'My Information' (with links to 'My Folder', 'Printer output', 'Display messages', 'Start a 5250 session', 'Database requests', 'Browse files', and 'Preferences'), 'My View' (with a link to 'Customizing iSeries Access for Web'), and 'Related Products' (with links to 'WebSphere Application Server for iSeries', 'WebSphere Development Studio Client for iSeries', and 'WebSphere Development Studio for iSeries'). Below this is a section titled 'What is iSeries Access for Web' with a paragraph of introductory text and sub-sections for 'Browser Access to iSeries Server Information' and 'Easy Administration'. On the right side, there are four sidebars: 'Rochester information' (with links to 'City information', 'Movies', and 'Mayo Clinic'), 'Rochester weather' (with a digital display and a 'SkyCam' link), 'Rochester news' (with links to 'Post-Bulletin online' and 'KTTC'), and 'Telephone directory' (with links to 'Find a person' and 'Find a business').

Web site: [www.ibm.com/systems/i/software/access/web](http://www.ibm.com/systems/i/software/access/web)

# Functions you can perform with iSeries Access for Web 5722-XH2, V5R4

## Print

- Printer output
- PDF Printer output
- Printers
- PDF Printers
- Internet Printers
- Internet Printer Shares
- Printer shares
- Output Queues

## 5250

- Active Sessions
- Start 5250 Session
- Configured Sessions
- **\*\* Bypass Sign-on**

## Files

- Browse Files
- File Shares
- **\*\* Browse File Share**

Items marked with “\*\*” are new in the V5R4 version

## Messages

- Display Messages
- Send Messages
- Sametime
- Operator Messages
- Message Queue

## Database

- Tables
- My Request
- Run SQL
  - **\*\* Open Office Formats**
- Copy Data to Table
- Import Requests
  - iSeries Access for Windows
    - **\*\* Query Manager**
    - **\*\* Query/400**
- Extract Server Data

## Commands

- Run commands
- My commands
- Search

## My Personal Folder

### Jobs

- User Jobs
- Server Jobs

### Customize

- Preferences
- Policies
- Settings
- **\*\* Transfer configuration data**

### Download

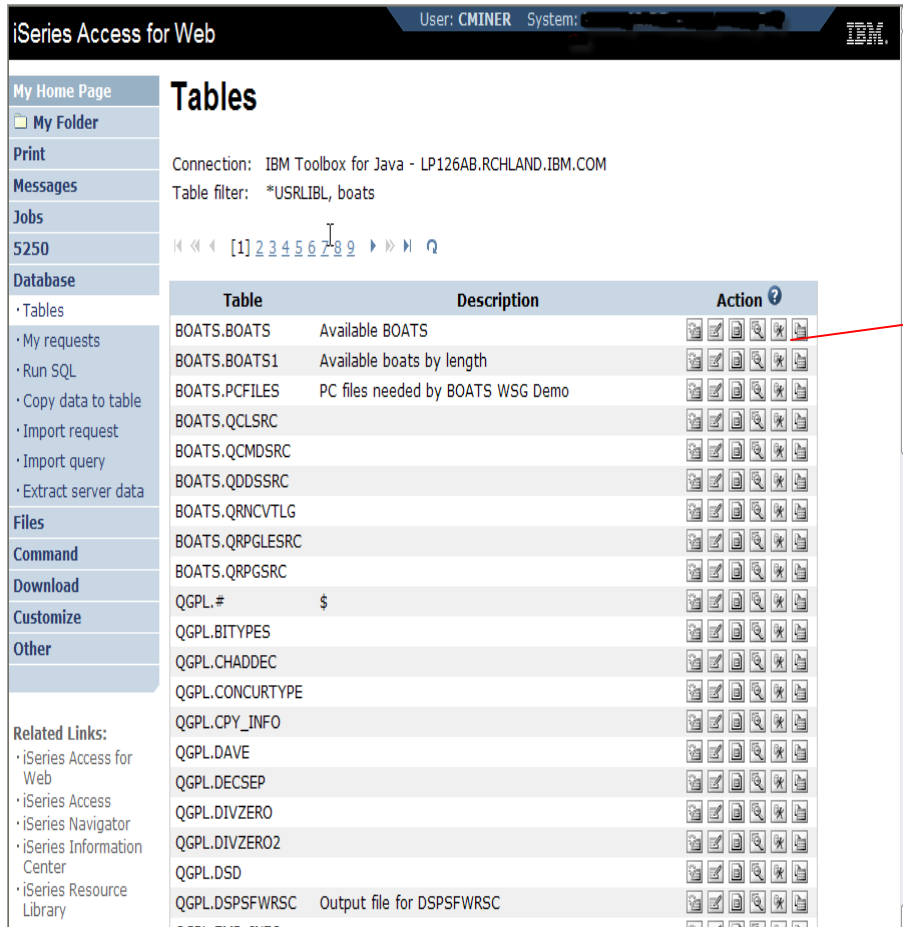
### Other

- Bookmarks
- Change Password
- Connection Pool
- Status
- Trace
- About



# Tables – work with i5/OS database information

## Servlet version



The screenshot shows the 'iSeries Access for Web' interface. At the top, it displays 'User: CMINER' and 'System: [redacted]'. The main content area is titled 'Tables' and shows a connection to 'IBM Toolbox for Java - LP126AB.RCHLAND.IBM.COM'. Below this, there is a table filter '\*USRLIBL, boats' and a pagination control showing page 1 of 9. The main table has three columns: 'Table', 'Description', and 'Action'. The 'Action' column contains a set of icons for each table row. A red arrow points from one of these icons to a larger, detailed view of the 'Action' menu on the right.

Table	Description	Action
BOATS.BOATS	Available BOATS	[Icons]
BOATS.BOATS1	Available boats by length	[Icons]
BOATS.PCFILES	PC files needed by BOATS WSG Demo	[Icons]
BOATS.QCLSRC		[Icons]
BOATS.QCMDSRC		[Icons]
BOATS.QDDSSRC		[Icons]
BOATS.QRNCVTLG		[Icons]
BOATS.QRPGLESRC		[Icons]
BOATS.QRPGSRC		[Icons]
QGPL.#	\$	[Icons]
QGPL.BITYPES		[Icons]
QGPL.CHADEEC		[Icons]
QGPL.CONCURTYPE		[Icons]
QGPL.CPY_INFO		[Icons]
QGPL.DAVE		[Icons]
QGPL.DECSEP		[Icons]
QGPL.DIVZERO		[Icons]
QGPL.DIVZERO2		[Icons]
QGPL.DSD		[Icons]
QGPL.DSPSFWRSC	Output file for DSPSFWRSC	[Icons]



The 'Action' menu is a grid of icons used for performing operations on the selected table. The icons include: a document with a plus sign (Insert), a document with a pencil (Update), a document (Quick View), a magnifying glass (Find), a document with a star (Run SQL), and a document with a copy icon (Copy Data To Table). A red arrow points from the 'Action' column of the table in the screenshot to this menu.

- Insert
- Update
- Quick View
- Find (new in V5R4)
- Run SQL
- Copy Data To Table

# Tables – work with iSeries database information

*Servlet version*

## **Run SQL has new destination option**

- **Store the output to the iSeries Integrated File System (IFS)**

iSeries Access for Web User: CMINER System:

**Run SQL**

SQL Statement

SQL Wizard

SQL Output

Type: Preview Settings

Destination: Browser  
Browser  
Integrated File System  
Personal folder

Format

Date: 11/17/05

Time: 2:43:08 PM

Connection

Connection: IBM Toolbox for Java - LP126AB.RCHLAND.IBM.COM

Run SQL Save Request...

SQL Statement Details

My Home Page  
My Folder  
Print  
Messages  
Jobs  
5250  
Database  
Tables  
My requests  
Run SQL  
Copy data to table  
Import request  
Import query  
Extract server data  
Files  
Command  
Download  
Customize  
Other

Related Links:  
iSeries Access for Web  
iSeries Access  
iSeries Navigator  
iSeries Information Center  
iSeries Resource Library

# Database – share data source names

*Servlet version*

**New in V5R4: Within the Customize tab, Database Connections link, you can now also set up to use **WebSphere data source** names when creating database connections**

- This enables many different applications running under WAS to use the same data source connections.
- ***WAS data sources are pooled and managed by WAS and should scale better than our original database connections.***

iSeries Access for Web User: CMINER System: LP126AB.RCHLAND.IBM.COM

### Edit Policies - Database Connections

Profile: CMINER

Default connection: IBM Toolbox for Java - LP126AB.RCHLAND.IBM.COM  
Default derived from: Shipped default

Action	Connection	Derived From
	Connection: IBM Toolbox for Java - LP126AB.RCHLAND.IBM.COM Driver class: com.ibm.as400.access.AS400JDBCdriver JDBC URL: jdbc:as400://LP126AB.RCHLAND.IBM.COM;prompt=false;	Shipped default

[Add database connection](#)  
Create a new database connection.

[Set default connection](#)  
Set the default connection policy for this profile.

[Category list](#)  
Return to the policies category list.

[Policies help](#)  
View help for working with database connections.

IBM | iSeries | Service 5.4.0.05-19

# Database: Import Query Requests

## Servlet version

Bring your existing queries to a browser environment

Use the **Import Query** tool to bring them into iSeries Access for Web

- **IBM Query for iSeries (5722-QU1)**
- **DB2 Query Manager (5722-ST1)**

**\*QMQRV and \*QRYDFN are the query file types supported**

iSeries Access for Web User: CMINER System: LP126AB.RCHLAND.IBM.COM

### Import Query

Specify the query file you want to import. The query contained in the query file will be converted to an iSeries Access for Web database request.

**Note:** The converted iSeries Access for Web database request could work differently than the original query file. Verifying the converted request is strongly recommended.

**Query to Import**

Query file:

Query type:

Query file CCSID:

**Import Details**

Query files of types \*QMQRV and \*QRYDFN are supported. These query files are created by Query for iSeries and DB2 UDB for iSeries Query Manager. Queries of type form, queries of type procedure, and prompted queries, are not supported. Queries containing program variables or replacement variables are also not supported.

**Related Links:**

- iSeries Access for Web
- iSeries Access

# Files: “Browse File Share” Link

**New in V5R4:  
Displays directory that  
is identified in the  
user’s Policy settings**

- **Shipped Default for  
\*PUBLIC is the QIBM  
folder.**
  - **As QIBM is one  
directory that  
automatically ships with  
a ‘share’ assigned**

The screenshot shows the 'iSeries Access for Web' interface. At the top, it displays 'User: cminer System: RCHLAND.IBM.COM'. The main content area is titled 'Directory Contents QIBM'. On the left, there is a navigation menu with options like 'My Home Page', 'My Folder', 'Print', 'Messages', 'Jobs', '5250', 'Database', 'Files', 'Command', 'Download', 'Customize', and 'Other'. The 'Files' section is expanded, showing 'Browse files', 'Browse file share', and 'File shares'. The main area contains links for 'Copy Files to Server' and 'Create Directory'. Below these, it states 'Found 6 directories. Found 0 files with a total size of 0 bytes.' A table lists the directories with columns for Name, Size (bytes), Type, Modified, and Action. The table contains six rows of directory information.

Name	Size (bytes)	Type	Modified	Action
<a href="#">include</a>		Directory	1/11/06 8:16:30 PM	
<a href="#">locales</a>		Directory	1/11/06 8:13:53 PM	
<a href="#">ProdData</a>		Directory	1/12/06 12:17:58 PM	
<a href="#">tempo</a>		Directory	4/19/05 12:26:59 AM	
<a href="#">UserData</a>		Directory	11/2/05 6:28:06 PM	
<a href="#">XML</a>		Directory	8/17/04 11:45:11 PM	

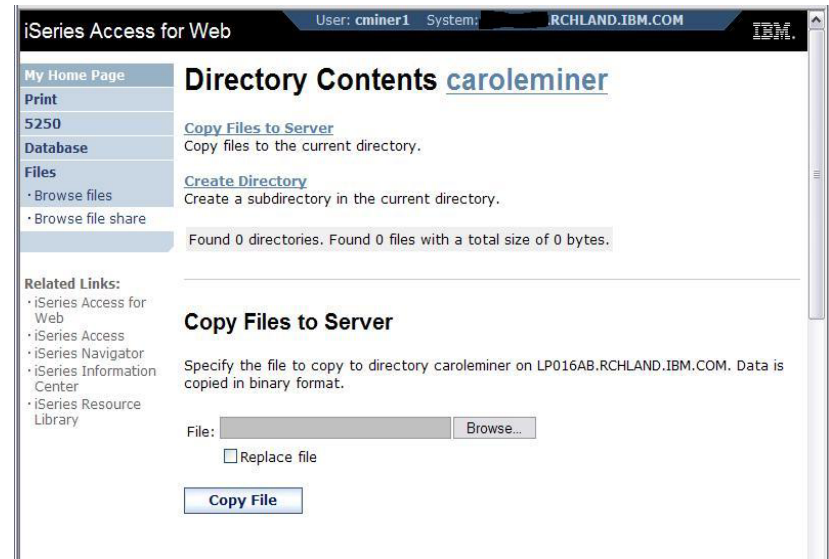
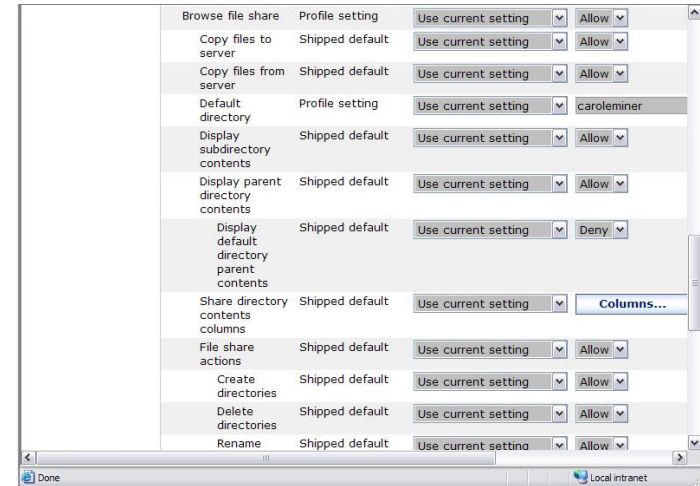
# Browse File Share with Policy setting

## Customize → Policies → Files

- Scroll down to 'Browse File Shares'
- Change directory from QIBM to another directory previously set up as a 'shared' directory
  - Note: Put in share name not directory name or path

## Advantage over 'Browse Files'

- Already set up to Read Only or Read/Write
- Don't have to go into Policies and make any other settings



# Administration of Users

## Servlet version

**New in V5R4: Administrators can now transfer iSeries Access for Web configuration items between i5/OS user profiles on the same system**

- This is useful if you wanted to replicate a category of configuration items to a different user (using Copy action) or transfer ownership of a category of configuration items to a different user (using Move action).
- The configuration items supported are: **5250 session configurations and macros, saved commands, database requests, My Folder items, and policies.**

The screenshot shows the 'iSeries Access for Web' interface. The title bar reads 'iSeries Access for Web' and 'USER: CHANER'. The main content area is titled 'Transfer Configuration Data'. On the left, there is a navigation menu with items: My Home Page, My Folder, Print, Messages, Jobs, 5250, Database, Files, Command, Download, Customize (with sub-items: Preferences, Policies, Settings, Transfer configuration), and Other. The main area contains the following sections: 'Profiles' with 'From profile:' and 'To profile:' fields, each followed by a 'Browse...' button; 'Action to Perform' with radio buttons for 'Copy' (selected) and 'Move'; 'Data to Transfer' with checkboxes for '5250 sessions', '5250 macros', 'Commands', 'Database requests', 'Folder items', and 'Policies'; and a 'Transfer Data' button. At the bottom, there is a 'Related Links' section with links to 'iSeries Access for Web', 'iSeries Access', 'iSeries Navigator', 'iSeries Information Center', and 'iSeries Resource'. A link for 'Transfer configuration data help' is also present, with the text 'View help for transferring configuration data.'

# Administration of Users

## *Servlet version*

To copy customized profile settings from one System i to another System i, you need to use the Export function to put them in a PC file, then use the Import function to put the profile settings on another iSeries.

- This is useful if you wish to create user group profiles (such as SALES, SECRETARY, etc) and set them up similarly on a variety of systems.

iSeries Access for Web User: CMINER System: L

**My Home Page**

- My Folder
- Print
- Messages
- Jobs
- S250
- Database
- Files
- Command
- Download
- Customize
  - Preferences
  - Policies
  - Settings
  - Transfer configuration
- Other

**Related Links:**

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

## Policies

Specify the profile you want to edit.

Profile: CMINER

---

[User profiles](#)  
Work with the user profiles you are authorized to customize.

[Group profiles](#)  
Work with the group profiles you are authorized to customize.

[Import policies](#)  
Import policies from a file into iSeries Access for Web.

[Export policies](#)  
Export policies from iSeries Access for Web to a file.

[Policies help](#)  
View help for working with policies.

IBM | iSeries | Service



# WebSphere Portal Offerings for System i

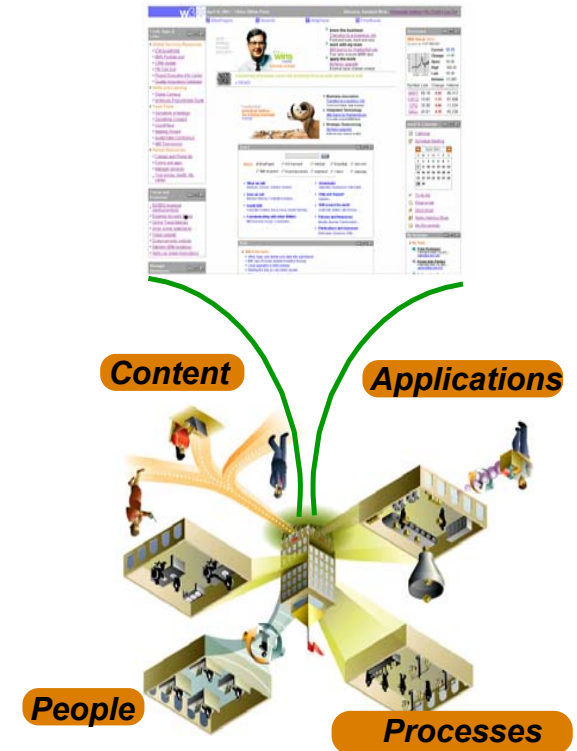
## i5 Models 550, 570 and 595

- Workplace Services Express V2.5 included
- WSE has wizards to simplify deployment on IBM i5/OS V5R3 and V5R4
- WSE has improved performance and reduces system requirements
- WSE enables you to deploy solutions for document management, instant messaging, and portal all on one server

## i5 Model 520

- Workplace Services Express V2.5 ships with Enterprise Edition

*Note: Depending on the System i, you may also be entitled to services and education vouchers.*



# Portal built for IBM Employees

The screenshot shows the IBM w3 On Demand Workplace portal. At the top, it says "w3 Carole A. Miner's On Demand Workplace" with links for "Edit settings" and "Sign out". The IBM logo is in the top right. Below the header is a navigation bar with "w3 Home", "BluePages", "HelpNow", and "Feedback". A secondary navigation bar has "Home", "Work", and "Career and life" tabs, with a "Help" link on the right.

The main content area is divided into three columns:

- Essential links:** A list of links including w3 Directory, About w3, About IBM, Buy on demand, Collaboration Central, Customer Reference Materials, Expense Reimbursement, IBM Club, IBM On Demand Community, IBM Rochester SiteNews, IBM SiteServ, IBM Standard Software Installer, IBM ThinkPlace, IBM Travel, IT Help Central, IT Security, Learning@IBM, and On Demand Business.
- News:** A section titled "Top stories Past 7 days >". It features three articles:
  - 1937: The Will to Think:** Accompanied by a photo of T.J. Watson. Text: "T.J. Watson's original words herald the cornerstone of innovation: thinking. [Profiled for all IBM]"
  - I need a holiday:** Accompanied by a yin-yang image. Text: "No surprise that you're not alone. [Profiled for all IBM]"
  - IBMers making history:** Accompanied by a silhouette of a person walking. Text: "Thousands of IBMers have contributed their DNA to the landmark Genographic Project. [Profiled for all IBM]"
- Search:** A search box with "BluePages" as the search type. It includes a "GO" button and a link to "Advanced search". Below it, "Other searches" includes radio buttons for "w3 intranet", "IBM discussion forums", "IBM news articles", "ibm.com Internet", and "IBM Learning (site search)".

At the bottom right, there is a "Market report" section with a table header: "Symbol", "Current", and "+/-". Below the header, it says "Quoted at 1:45 PM, EST on 19 Dec. Refresh".

# iSeries Access for Web Portlets on System i Portal

The screenshot shows the System i Portal interface. At the top, there is a navigation bar with 'My Portal', 'Administration', 'Edit my profile', and 'Log out'. Below this is a secondary navigation bar with 'Welcome', 'My Work', 'My Finances', 'My Newsroom', 'My iSeries' (highlighted with a red circle), and 'My Favorites'. A third navigation bar contains '5250', 'IFrame Portlets', 'Files', 'Print', 'Database', and 'Command'. The main content area is titled 'iSeries 5250 Session' and 'Welcome'. It features a 'Start Session' section with fields for 'Server' (x1519p4.rchland.ibm.com), 'Port' (23), and 'Code page' (37). There are also radio buttons for 'Workstation ID' and checkboxes for 'Display HTML data in fields' and 'Avoid duplicates'. A 'Start Session' button is at the bottom of this section. The right side of the page lists 'iSeries Access portlets include the following:' followed by a bulleted list of portlets and their functions.

**Start Session**

**Server**

Server: x1519p4.rchland.ibm.com

Port: 23

Code page: 37

Display HTML data in fields

**Workstation ID**

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

**Start Session**

Welcome to the iSeries Access portlets - specifically developed for iSeries Access customers. These portlets allow you to access information on your iSeries servers through a Web browser.

iSeries Access portlets include the following:

- 5250 portlet
  - Run commands and access full-screen 5250 character-based applications.
- IFrame portlet
  - Access any of the iSeries Access for Web servlets using the IFrame portlet.
- Integrated file system (IFS) browsing portlets
  - Browse the iSeries integrated file system.
  - View, edit, upload and download files.
- Printers, printer output, and output queues portlets
  - View printer status, start and stop the writer job associated with a printer.
  - Hold, release, print, delete and view printer output files.
  - Move printer output files to another output queue or printer.
  - Hold and release output queues.
- Database tables and SQL portlets
  - View database tables, add and update records.
  - View query results, customize format of results.
  - Run SQL statements dynamically.
- Commands portlets
  - Run CL commands.

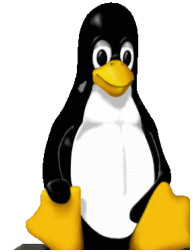
The iSeries Access portlets are included with iSeries Access for Web. The iSeries Access for Web product is part of the iSeries Access Family (5722-XW1). For more information regarding iSeries Access, iSeries Access for Web, and the iSeries Access

# Database – new spreadsheet format

*New capability in both the servlet and portlet versions*

**The OpenOffice spreadsheet format (.ods)  
is now supported:**

- **Servlet version: *Run SQL and Copy Data to Table***
- **Portlet version: *Dynamic SQL, SQL Query, and the new SQL Requests***



# Authentication to i5/OS

*New capability in both the servlet and portlet versions*

## Support for Single sign-on (SSO)

- **Previously, iSeries Access for Web used only HTTP basic authentication to retrieve the user-ID and password from the user.**
  - Since this profile information could not be shared with other iSeries web-based applications, this often resulted in the user being prompted multiple times from different applications for the same user-ID and password information.
- **iSeries Access for Web now supports the WAS security model so that single sign-on can be accomplished amongst WAS applications.**
  - This then ties into the i5/OS SSO support (i.e., identity tokens that hold user credentials such as password, certificates, EIM that maps a non-iSeries user to an iSeries user profile, and LDAP as the user repository) on the iSeries.
- **New configuration parameters are used to set up this type of environment.**

# Authentication to i5/OS

*New capability in both the servlet and portlet versions*

The 5250 emulator function now includes:

- A checkbox on the 5250 *Start Session* function to Bypass Signon.
  - This enables users to bypass the i5/OS sign-on screen.
- (Note: the bypass sign-on feature cannot be used if iSeries Access for Web is configured to use application server authentication.)

**iSeries Access for Web** User: CMINER System

**My Home Page**

- My Folder
- Print
- Messages
- Jobs
- 5250
  - Active sessions
  - Configured sessions
  - Start session
- Database
- Files
- Command
- Download
- Customize
- Other

**Start Session**

**Server** ?

Server: LP126AB.RCHLAND.IBM.COM

Port: 23

Code page: 37

**Workstation ID** ?

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

**General** ?

Initial macro: [dropdown]

Bypass signon

Display HTML data in fields

**Start Session**

**Related Links** →

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information



# Enhancements to the Portlet version

## Portlet version

### Database function

- **iSeries SQL**

- Requests has been added so you can create, save, manage, and run saved SQL requests.

- **iSeries SQL Results**

- A Viewer has been added so you can view the results of running a saved iSeries SQL request.

The screenshot shows a WebSphere Portal interface with a navigation bar at the top containing 'Welcome', 'My Work', 'My Finances', 'My Newsroom', 'My iSeries', and 'My Favorites'. Below the navigation bar is a breadcrumb trail: '5250 > IFrame Portlets > Files > Print > Database > Command'. The main content area contains four portlets:

- iSeries Database Table**: A portlet with a title bar and a description: 'Use edit mode to configure this function. If edit mode is not available, contact your system administrator.'
- iSeries SQL Query**: A portlet with a title bar and a description: 'Use edit mode to configure this function. If edit mode is not available, contact your system administrator.'
- iSeries Dynamic SQL**: A portlet with a title bar and a form for entering an SQL statement. The form includes a text input field and a 'Run SQL' button.
- iSeries SQL Requests**: A portlet with a title bar and a table. The table has two columns: 'Request' and 'Actions'. The table is currently empty, showing 'Showing 0 - 0 of 0' and 'Page 1 of 1'. There are 'Create Request' and 'Refresh' buttons above the table.
- iSeries SQL Results - Viewer**: A portlet with a title bar and a description: 'Use the iSeries SQL Requests portlet to select a request to run.'

# Enhancements to the Portlet version - Files

## Portlet version

### File function

- A Zip function has been added so you can zip files in the integrated file system.
- You can also add files to your zip file, extract them from an existing zip, and display the contents of a zip file in the integrated file system.

The screenshot displays the iSeries File List portlet within a WebSphere Portal environment. The interface includes a navigation bar with tabs for 'Welcome', 'My Work', 'My Finances', 'My Newsroom', 'My iSeries', and 'My Favorites'. Below the navigation, there are tabs for '5250', 'IFrame Portlets', 'Files', 'Print', 'Database', and 'Command'. The main content area is titled 'iSeries File List' and shows a 'Directory Contents' view with a 'Refresh' button. A table lists the contents of the directory, including folders like 'ASFTomcat', 'bin', 'dev', 'etc', 'home', 'InstallShield', 'lib', 'PSF400', 'QDLS', and 'QFileSvr.400'. Below the table, there is a 'Copy File to Server' section with a file input field, a 'Browse...' button, a 'Replace if exists' checkbox, and a 'Copy to Server' button. On the right side, there are three portlets: 'iSeries File List - Viewer', 'iSeries File List - Editor', and 'iSeries Zip File'. The 'iSeries Zip File' portlet contains a 'Create Zip File' button and instructions on how to work with existing zip files.

Name	Size (bytes)	Type	Modified
ASFTomcat		Directory	10/5/05 6:17:52 AM
bin		Directory	10/4/05 1:53:45 PM
dev		Directory	10/4/05 1:53:44 PM
etc		Directory	10/5/05 8:14:52 AM
home		Directory	11/16/05 9:38:49 PM
InstallShield		Directory	10/4/05 4:38:21 PM
lib		Directory	10/4/05 1:56:34 PM
PSF400		Directory	11/15/05 9:53:29 AM
QDLS		Directory	10/4/05 1:46:56 PM
QFileSvr.400		Directory	10/4/05 1:46:57 PM



# Enhancements to the Portlet version

## Portlet version

### i5/OS Credentials

- **Users can now change their i5/OS user profile password through iSeries Access for Web**
- **It will additionally update the defined vault credentials to match the new password value.**

The screenshot displays the iSeries Access for Web portal interface. At the top, there is a navigation bar with tabs for 'Welcome', 'My Work', 'My Finances', 'My Newsroom', 'My iSeries', and 'My Favorites'. Below this, there are several portlets. The 'iSeries Credentials' portlet is active, showing a 'New Credential' form with fields for Name, Description, User, Password, and Confirm password, along with 'OK' and 'Cancel' buttons. To the right, the 'iSeries Related Links' portlet lists various links such as 'IBM', 'eServer', 'iSeries Servers', 'iSeries Access for Web', 'iSeries Access', 'iSeries Navigator', 'iSeries Information Center', 'iSeries Resource Library', and 'iSeries Support'. Below the 'iSeries Credentials' portlet, the 'iSeries Access for Web Data Store' portlet is visible, featuring a 'Refresh' button and a table with columns for Name, Type, Access, and Actions. The table shows 'Showing 0 - 0 of 0' and 'Page 1 of 1'.

## V5R4 iSeries Access for Web Enhancements

Both Servlets and Portlets	Servlets	Portlets
<p><b>Authentication</b></p> <ul style="list-style-type: none"> <li>Support Single sign-on (SSO) using WAS security model (EIM, LDAP)</li> <li>5250 Bypass i5/OS sign-on screen</li> </ul> <p><b>Database</b></p> <ul style="list-style-type: none"> <li>Support for OpenOffice Spreadsheet format (.ods)</li> </ul> <p><b>5250</b></p> <ul style="list-style-type: none"> <li>Support DDS HTML keywords</li> <li>Display HTTP/HTTPS URL strings as links</li> </ul>	<p><b>Database</b></p> <ul style="list-style-type: none"> <li>Import/run DB2 Query Manager and IBM Query for iSeries queries</li> <li>A new output destination of IFS for SQL requests</li> <li>New option of 'Find' on Tables link</li> </ul> <p><b>Administration</b></p> <ul style="list-style-type: none"> <li>Can transfer configuration items between i5/OS user profiles</li> <li>Can use WebSphere data source names for database connections</li> </ul> <p><b>Files</b></p> <ul style="list-style-type: none"> <li>Browse File Share link added</li> </ul>	<p><b>Database</b></p> <ul style="list-style-type: none"> <li>iSeries SQL Requests added</li> <li>iSeries SQL Results Viewer added</li> </ul> <p><b>Files</b></p> <ul style="list-style-type: none"> <li>Zip function added</li> </ul> <p><b>iSeries Credentials</b></p> <ul style="list-style-type: none"> <li>Can change i5/OS password via iSeries Access for Web</li> </ul>

# iSeries Access for Web has many entry points

Can enter at many different pages

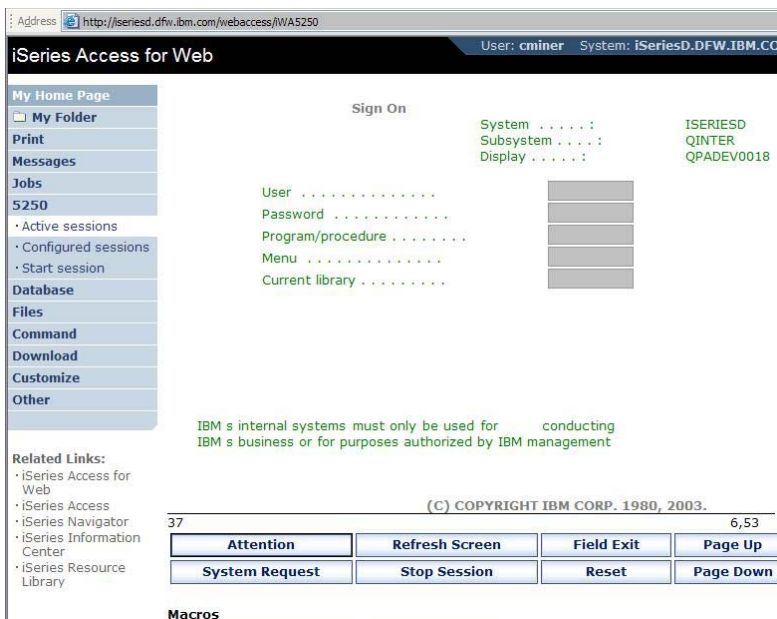
Can use navigation bar to move from function to function

<http://<myiseries>/webaccess/iWA5250>

<http://<myiseries>/webaccess/iWAMain>



<http://<myiseries>/webaccess/iWASpool>



# Your **Window** to your System i

<http://<myseries>/webaccess/iWAHome>

Customized 'window' to i5/OS

Home page is associated with i5/OS user profiles

- An administrator can create multiple different 'windows' based on user profile / group profile for different types of users.
- Can tightly control what functions a user can perform on your iSeries
- Tie in with other web applications (such as WebFacing and HATS) from here as well
- Link to other systems, not just System i



- *One view and set of functions for the Accounting department*
- *Another view and set of functions for the Warehouse staff*

# Customized Home Page

## Customized view of the Home Page

- Could be used as 'entry' point to System i

The screenshot shows a web browser window with the address bar displaying `http://iseriesd.dfw.ibm.com/webaccess/iWAHome`. The browser interface includes a search bar, a toolbar with icons for Smiley Central, Screensavers, Cursor Mania, PopSwatter, Games, and My Info, and a status bar at the bottom showing 'Done' and 'Internet'.

The main content area is titled "Access for Water" with the tagline "Supplying quality boats since 2002". It is divided into three columns:

- Services:** A list of links including "See boat details - 5250", "See boat details - HATS LE", "See boat details - WebFacing", "View available boats", "Order a boat", "Work with invoices", "Check messages", "Check system messages", "Administrator tasks", "Manage incoming items", "Monitor jobs", and "Download client software".
- This Week's Special:** Features a photograph of a white boat and text describing a "Beautifully maintained 28 foot 1978 Carver Santa Cruz for only \$23,900. Head and galley refurbished in 2001. Only 31 hours on completely rebuilt motor. Click [here](#) to see this boat cruising the seas."
- Site Support:** Contains text encouraging user feedback: "Your comments are important to us. Please let us know if you have any questions or if we can help you in any way. Address your message to user BOATHELP. [Send us a message](#)". It also provides contact information: "If you prefer to contact us directly, use our [telephone directory](#) to lookup phone numbers and e-mail addresses."

At the bottom, there is a "Great Deals" section with text: "For those bargain conscious among you, we have a large selection of new and slightly used boats for under \$75,000. Whether you are planning on sailing in your backyard pond or navigating the mighty Mississippi we can meet your wants, needs, or desires. [View our selection of modestly priced boats.](#)"

On the right side, there is a "Weather Conditions" section with a map of the United States showing weather forecasts for various cities. The text reads: "Is it a great day for boating? Check out today's forecast." The map includes weather icons and temperature readings for cities like Seattle, Portland, San Francisco, Los Angeles, Phoenix, Denver, Kansas City, Chicago, New York, and others.

`http://iseriesd.dfw.ibm.com/webaccess/iWAHome`



# Try out iSeries Access for Web for yourself!

Start your browser and connect to the following web site:

<http://iseriesd.dfw.ibm.com/webaccess/iWAHome> (case sensitive)

<p><b>User ID = WACUST</b></p> <p><b>Password = DEMO2PWD</b></p>	<p>This shows the basic look of Access for Web as we ship it. You can try various functions -- including working with printer output, creating database requests, etc. Click on the 5250 tab, sign onto the iSeries, then start an RPG application called BOATS and run it.</p>
<p><b>User ID = BOATADMIN</b></p> <p><b>Password = DEMO2PWD</b></p>	<p>This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session, or they could have used HATS to run the application. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc..</p>

**Send email to: [LLHIRSCH@us.ibm.com](mailto:LLHIRSCH@us.ibm.com) to reset the user profiles on the system if either one gets disabled.**

## Please submit requirements through FITS

*Best way to get new function into our products!*



**Functional enhancements can be submitted via the FITS system.**

**Go to the iSeries Access home page:**

**<http://www.ibm.com/systems/i/software/access/>**

**And click on link [Request for Design Change](#)**

# Summary

The way to work with your System i is through an easy-to-use and powerful GUI..

- Your desktop solutions will 'look great'...
- You have leading technology at your fingertips that bring exceptional productivity benefits...
- You can easily expand your business to the Web

As one customer said ‘ *a definite “got to have” product for any serious System i shop* ’





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Photographs shown are of engineering prototypes. Changes may be incorporated in production models.

# Appendix

## **Transform Examples:**

- 1) Install with only ODBC driver and printer drivers**
- 2) Install with only PC5250 predefined workstation file**

## Example 1

**Administrator only wants to provide ODBC and Printer Drivers for a group of users**

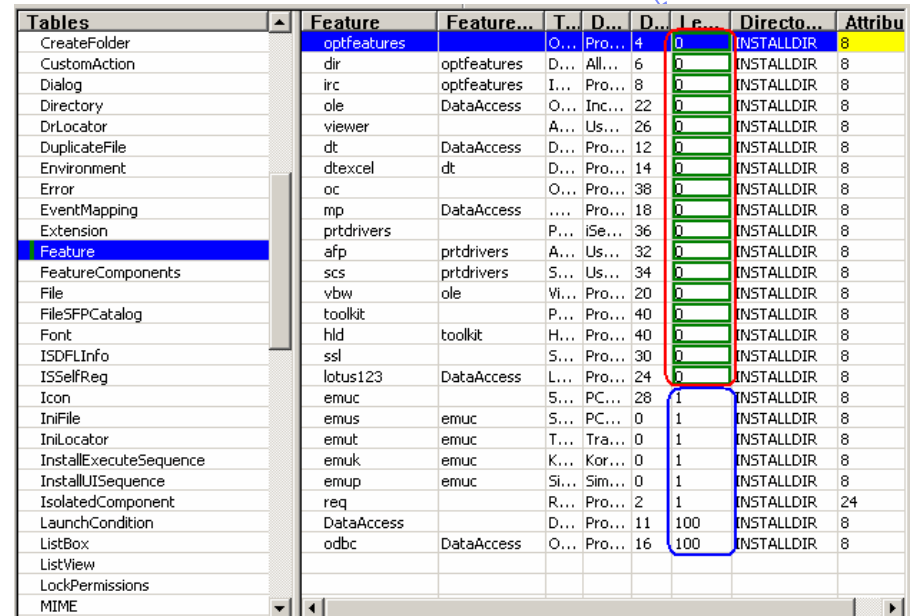
- **Create a transform that enables end users to install only ODBC and Printer drivers.**
- **Disable all features you don't want users to use.**
- **No need to create a tailored image. The transform can be applied to the original image.**

# Example 1 (continued)

1. Open cwbinstall.msi and select Transform>New Transform.
2. Open the Feature table.
3. Change the Level field to 0 for all features, except the ones you want to install:
  - req
  - emuc, emuk, emup, emus, emut
  - **DataAccess**
  - **Odbc**

Save the transform as  
odbc\_pc5250\_only.mst

A level of 0 disables the feature



Tables	Feature	Feature...	T...	D...	D...	Le...	Directo...	Attribu
CreateFolder	optfeatures		O...	Pro...	4	0	INSTALLDIR	8
CustomAction	dir	optfeatures	D...	All...	6	0	INSTALLDIR	8
Dialog	irc	optfeatures	I...	Pro...	8	0	INSTALLDIR	8
Directory	ole	DataAccess	O...	Inc...	22	0	INSTALLDIR	8
DrLocator	viewer		A...	Us...	26	0	INSTALLDIR	8
DuplicateFile	dt	DataAccess	D...	Pro...	12	0	INSTALLDIR	8
Environment	dtexcel	dt	D...	Pro...	14	0	INSTALLDIR	8
Error	oc		O...	Pro...	38	0	INSTALLDIR	8
EventMapping	mp	DataAccess	....	Pro...	18	0	INSTALLDIR	8
Extension	prtdrivers		P...	iSe...	36	0	INSTALLDIR	8
Feature	afp	prtdrivers	A...	Us...	32	0	INSTALLDIR	8
FeatureComponents	scs	prtdrivers	S...	Us...	34	0	INSTALLDIR	8
File	vbw	ole	Vi...	Pro...	20	0	INSTALLDIR	8
FileSFPCatalog	toolkit		P...	Pro...	40	0	INSTALLDIR	8
Font	hid	toolkit	H...	Pro...	40	0	INSTALLDIR	8
ISDFLInfo	ssl		S...	Pro...	30	0	INSTALLDIR	8
ISSelfReg	lotus123	DataAccess	L...	Pro...	24	0	INSTALLDIR	8
Icon	emuc		S...	PC...	28	1	INSTALLDIR	8
IniFile	emus	emuc	S...	PC...	0	1	INSTALLDIR	8
IniLocator	emut	emuc	T...	Tra...	0	1	INSTALLDIR	8
InstallExecuteSequence	emuk	emuc	K...	Kor...	0	1	INSTALLDIR	8
InstallUISequence	emup	emuc	Si...	Sim...	0	1	INSTALLDIR	8
IsolatedComponent	req		R...	Pro...	2	1	INSTALLDIR	24
LaunchCondition	DataAccess		D...	Pro...	11	100	INSTALLDIR	8
ListBox	odbc	DataAccess	O...	Pro...	16	100	INSTALLDIR	8
ListView								
LockPermissions								
MIME								

## Example 1 (continued)

### Apply the transform

#### Two ways to apply the transform:

1. Your users can apply it at the command line:

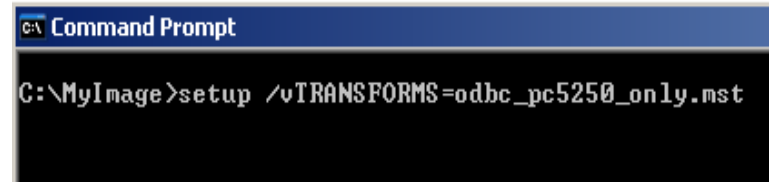
**Type:**

```
setup  
/vTRANSFORMS=odbc_pc5250_only.ms  
t
```

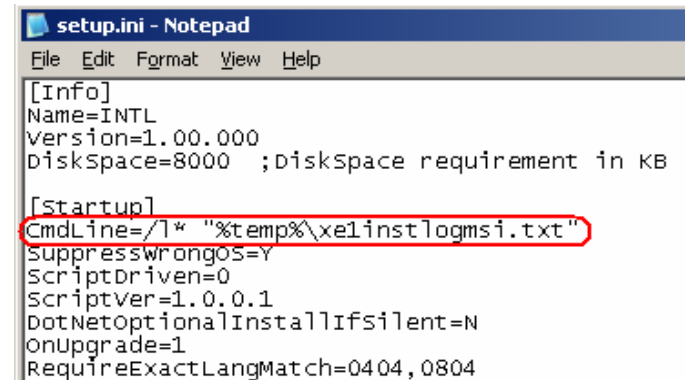
or

2. You can modify setup.ini, and users will get the transform automatically:

- a. Open setup.ini and locate the **CmdLine** key, under the **[Startup]** section.
- b. Append the string **TRANSFORMS=odbc\_pc5250\_only.mst** to **CmdLine**.
- c. When user runs setup.exe, the transform will get applied.



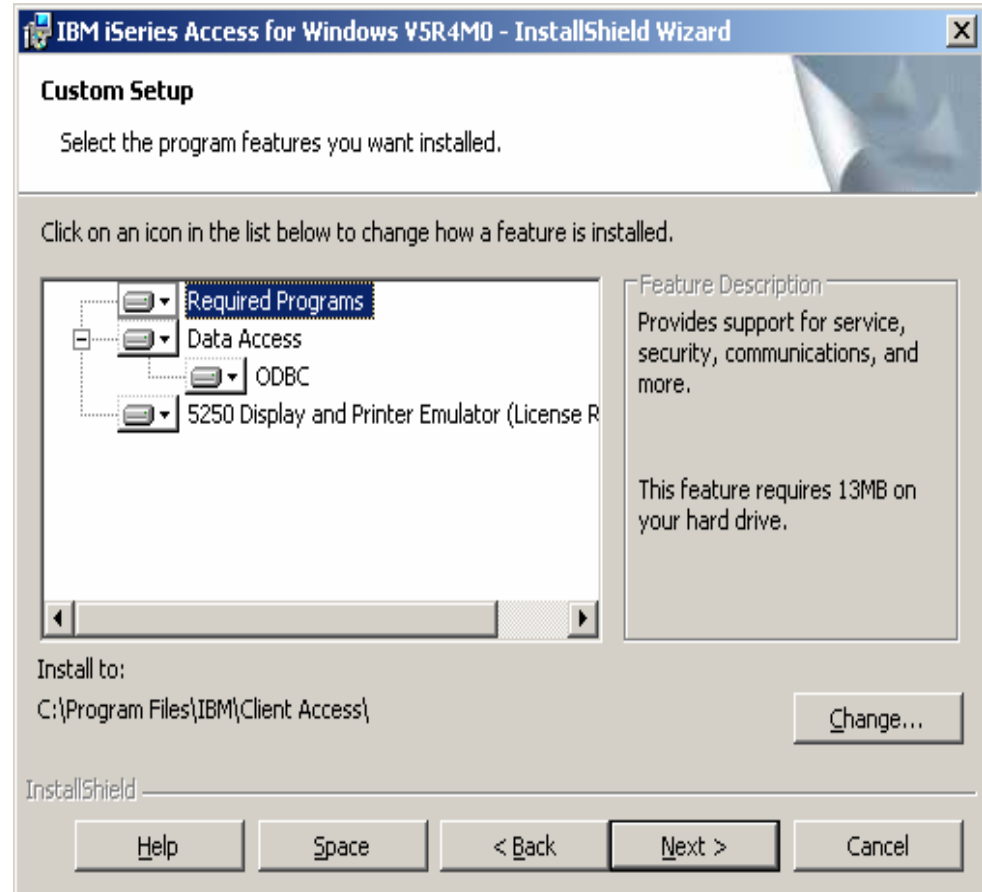
```
Command Prompt  
C:\MyImage>setup /vTRANSFORMS=odbc_pc5250_only.mst
```



```
setup.ini - Notepad  
File Edit Format View Help  
[Info]  
Name=INTL  
Version=1.00.000  
DiskSpace=8000 ;DiskSpace requirement in KB  
[Startup]  
CmdLine=/1* "%temp%\xe1instlogmsi.txt"  
SuppressWrongOS=Y  
ScriptDriven=0  
ScriptVer=1.0.0.1  
DotNetOptionalInstallIfSilent=N  
OnUpgrade=1  
RequireExactLangMatch=0404,0804
```

## Example 1 (continued)

- Complete **option selected**: **only** enabled features will be installed.
- **Custom option selected**: **only** enabled features will be visible **in the feature selection tree**.
- **If installation is launched with** basic or no user interface, **only** enabled features will be installed.



## Example 2

**Administrator wants to provide 5250 Emulator predefined workstation file for another group of users**

**Create a transform that allows rolling out a predefined PC5250 workstation file (.ws)**

**The .ws file must be created previously with the Start or Configure Session option of PC5250.**

**The file will be installed to the default store location for .ws files :  
<iSeries Access for Windows install path>\Emulator\Private**

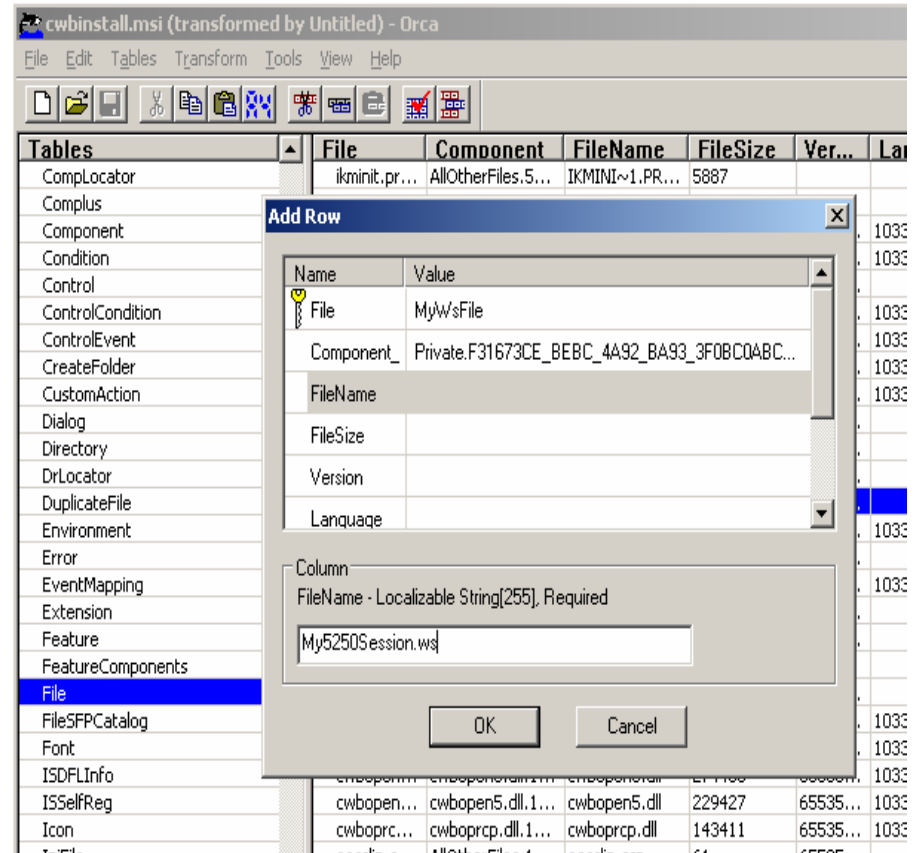
**Process overview:**

- 1. Specify new file's attributes in the File table.**
- 2. Associate the new file to the Private component in the File table (Private is an existing component that installs files to the Private folder).**
- 3. Add the file to the installation disk description, in the Media table.**
- 4. Copy the .ws file to the install image.**
- 5. Create the transform.**

## Example 2 (continued)

1. Open cwbinstall.msi and select Transform>New Transform.
2. Open the File table.
3. Right-click on the right pane and select Add Row.
4. Enter the following values:
  - **File** = *MyWsFile*
  - **Component** = **Private.F31673CE\_BEBC\_4A92\_BA93\_3F0BC0ABC296**
  - **FileName** = *My5250Session.ws*
  - **FileSize** = **622**
  - **Version** = <leave it blank>
  - **Language** = <leave it blank>
  - **Attributes** = **8192**
  - **Sequence** = **5000**

Values in *red and italics* are your choice.





## Example 2 (continued)

5. Open the Media table and add a new row with the following values:
  - **DiskId = 22**
  - **LastSequence = 5000**
  - **DiskPrompt = 1**
  - **Cabinet = <leave it blank>**
  - **VolumeLabel = DISK1**
  - **Source = <leave it blank>**
6. Save the transform as rollout\_ws.mst.
7. In your source installation directory, recreate the Private directory tree. For example, supposing that your installation image is located in C:\MyImage, create the following directory structure:

**C:\MyImage\Program Files\IBM\Client Access\Emulator\Private**

8. Copy the .ws file to your source image under the directory created on step 7.

## Example 2 (continued)

### Apply the transform

#### Two ways to apply the transform:

1. Your users can apply it at the command line:

Type:

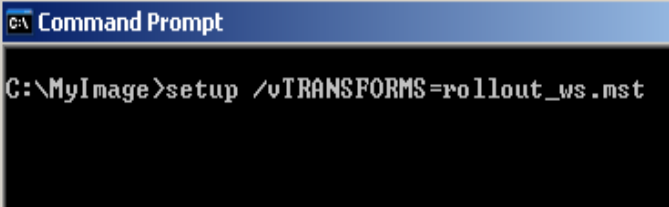
`setup /vTRANSFORMS=rollout_ws.mst`

or

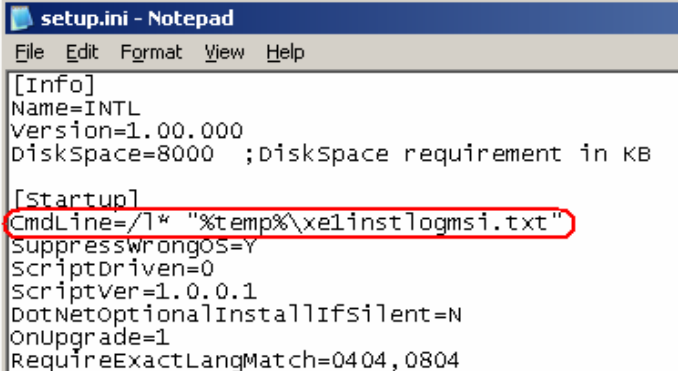
2. Modify setup.ini so users get the transform by just launching setup.exe:

- a. Open `setup.ini` and locate the line saying `CmdLine`, under the `[Startup]` section.

- b. Append the string `TRANSFORMS=rollout_ws.mst` to `CmdLine`.



```
CA Command Prompt
C:\MyImage>setup /vTRANSFORMS=rollout_ws.mst
```



```
setup.ini - Notepad
File Edit Format View Help
[Info]
Name=INTL
Version=1.00.000
DiskSpace=8000 ;DiskSpace requirement in KB
[Startup]
CmdLine=/1* "%temp%\xelinstlogmsi.txt"
SuppressWrongOS=Y
ScriptDriven=0
ScriptVer=1.0.0.1
DotNetOptionalInstallIfSilent=N
OnUpgrade=1
RequireExactLangMatch=0404,0804
```

## Example 2 (continued)

### Use Complete or PC5250 User Install option

- On the iSeries Access for Windows Install Wizard select 'Complete' setup or 'PC5250User' setup.
- The .ws file will be installed to the Emulator\Private folder.
- When users launch 'Start or Configure Session', the preconfigured .ws file will be listed.

