



IBM eServer iSeries

Session: 409136

Get to the Web with iSeries Access for Web

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why "i"? it's simple.

IBM eServer iSeries



iSeries Access for Web – Sessions in Orlando

1. 25MN - iSeries Access for Web: The Browser Alternative!
2. 26MN - Tips and Techniques for iSeries Access for Web
3. 31MN – iSeries Access for Web: Real World Usage (NEW!)
4. 32MN - iSeries Access for Web: Run 5250 in a Browser
5. 33MN - iSeries Access for Web: Setup and Configuration
6. 35LC - LAB: iSeries Access for Web: Installation and Configuration
7. 36LC - LAB: iSeries Access for Web: Installation and Configuration 
8. 41LC - OPEN LAB: iSeries Access for Web
9. 42LC - OPEN LAB: iSeries Access for Web
10. 45MN - iSeries Access for Web: Database Access
11. 46MN – Programming with iSeries Access for Web
12. 52MN - iSeries Access for Web: Control Access to your iSeries Resources
13. 53MN - iSeries Access for Web Runs in a Portal
14. 54MF - iSeries Access for Web: Printing Made Easy Through Your Browser

 Voted "Best Traditional Lab" at Spring 2005 COMMON

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Abstract

- **Are you tired of trying to keep software up-to-date on your networked PCs?**
 - Then you should use **iSeries Access for Web** in your network
- **Do you have an iSeries with 70 CPW and 256 MB of Memory?**
 - Then you can use **iSeries Access for Web...**
- **Are you looking for a simple solution that you can set up in a couple of hours?**
 - Then **iSeries Access for Web** is for you...

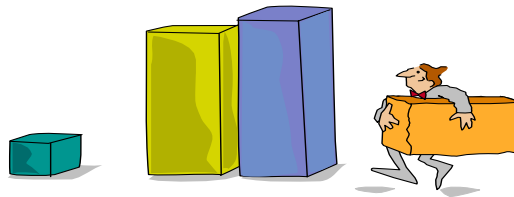
The iSeries Access Family includes a browser-based option called 'iSeries Access for Web'.

Many iSeries customers are looking for a fast, easy, and zero-admin alternative for connecting to their servers -- and iSeries Access for Web is that solution!

Come to this session to learn how this product can simplify your PC network administration while at the same time offering end user functions customers help come to expect with Client Access products. By the end of this session, you will:

1. See how 5250, database and IFS access can be used from a browser.
2. See how an administrator can set up front pages for different groups of users.
3. See how users can work with printers, print jobs, etc. on the server.

Packaging and Ordering



iSeries Access Family Packaging

V5R3 iSeries Access Family 5722-XW1	V5R2 iSeries Access Family 5722-XW1
•iSeries Access for Windows, 5722-XE1, V5R3	•iSeries Access for Windows, 5722-XE1, V5R2
•iSeries Access for Web, 5722-XH2, V5R3	•iSeries Access for Web, 5722-XH2, V5R2
•HATS Limited Edition V5.0, 5724-F97-01	•HATS Limited Edition V4.0, 5724-D34-01
•iSeries Access for Linux, 5722-XL1, V5R3	•WebSphere Host Publisher, 5724-B81, V4.0, 5724-B81, V4.01
•iSeries Access for Wireless, 5722-XP1, V5R2	•iSeries Access for Wireless, 5722-XP1, V5R2
	V5R2 customers not wanting to upgrade to OS/400 V5R3 but want the new V5R3 iSeries Access Family clients can order no-charge Feature No. 2647 of Product No. 5722-XW1



OS/400
V5R1

EOM was
12/2003

EOS was
extended
from
5/31/2004
to
9/30/2005

Table of Contents

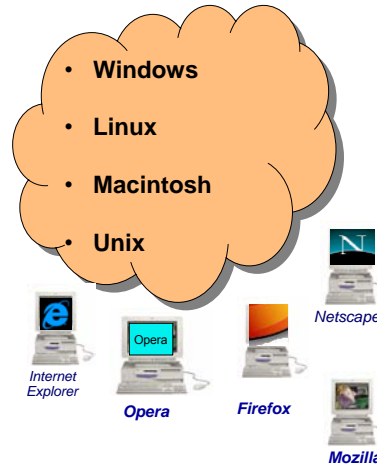
- What is Access for Web?
- Getting Started
- Ways to roll out to end users
- Control Access to functions



What is iSeries Access for Web?

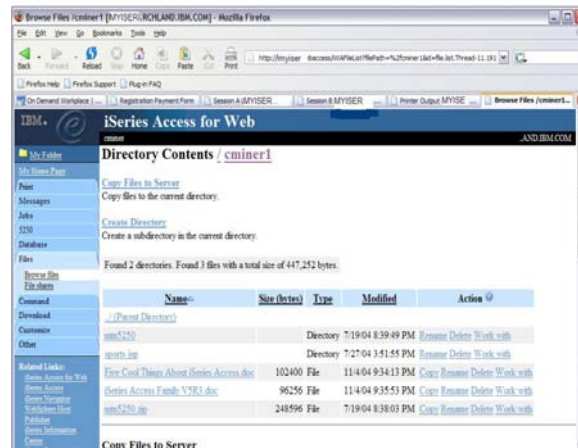
End users can leverage business information, applications, and resources across an enterprise by extending the iSeries resources to the client desktop through a web browser

- **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



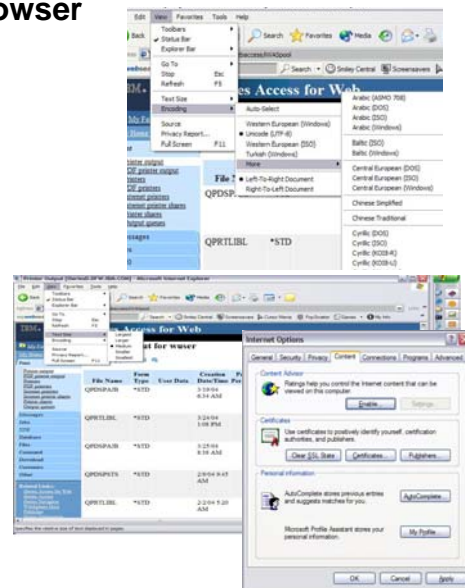
Firefox Browser

- **Firefox browser provides tabs**
 - Simply press **File → New tab** to open additional windows
- **Download from www.mozilla.com**



Fully Integrated with your Browser

- Use any code page available in your browser
 - iSeries Access for Web, V5R2, translated into 33 NLVs (including DBCS)
 - See screens in preferred language
- Use any keyboard setting available in Windows
- Font Size
- Set up your SSL through your browser



Functions you can perform

iSeries Access for Web, 5722-XH2, V5R3

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

Files

- Browse Files
- File Shares

Messages

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

Database

- Tables
- My Request
- Run SQL
- Copy Data to Table
- Import Request
- **Extract Server Data**

Commands

- Run commands
- My commands
- Search

My Personal Folder

Jobs

- User Jobs
- Server Jobs

Customize

- Preferences
- Policies
- Settings

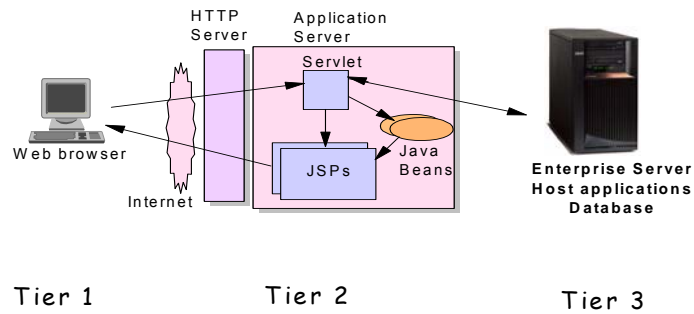
Download

Other

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

Getting Started

Before you start with Access for Web you must get your web application server running



Web Application Server Options

Web Application Server Options	Minimum iSeries Requirements
ASF Tomcat The ASF Tomcat web application server is part of the no-charge IBM HTTP Server for iSeries (5722-DG1)	70 CPW 256 MB memory
WebSphere Application Server - Express V6.0 WebSphere Application Server - Express V5.1 WebSphere Application Server - V5.0 Express for iSeries These ship with i5/OS V5R3 at no additional charge	300 CPW 512 MB memory
WAS V6.0 Base, WAS V5.1 Base, WAS V5.0 Base WAS V6.0 Network Deployment, V5.1 ND, V5.0 ND	512-750 MB memory
IBM Workplace Services Express V2.5 (SI18964) WebSphere Portal for Multiplatforms V5.1.0.1 (SI18964) WebSphere Portal Express for Multiplatforms V5.0.2 WebSphere Portal Express Plus for Multiplatforms V5.0.2	750 CPW 2 GB memory
WAS Advanced Edition V4 WAS Advanced Edition Single Server V4 WAS V3.5	Old...

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Is your AS/400 or iSeries ready?

<p>Under 512Mb Under 300 CPW</p>	<p>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</p>	<p>3xx, 4xx 500, 510, 50S 53S / #2154 530 / # 2150, # 2151 600 620 / #2175, #2179, #2180, #2181 720 / #2061 820 / #2425, #2426, #2457, #2456</p>
<p>512Mb-1GB 300-500 CPW</p>	<p>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</p>	<p>WAS Express with few concurrent users</p>
<p>Over 1GB And 500 CPW</p>	<p>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</p>	<p>Complex web applications with many concurrent users</p>

http://www-1.ibm.com/servers/eserver/iseries/software/websphere/lay_foundation.html

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Performance Considerations...

Does running Access for Web affect server performance?

- Products like Access for Web do not put much strain on the system...

How does the web application server affect performance?

- If you have an older, under-powered iSeries, then performance may not be good...if you have a newer, bigger iSeries, then performance won't be an issue (unless you already are running your system at maximum capacity).
- Use the **IBM eServer Workload Estimator** to see what performance will be if WAS is added to your system at: <http://www-912.ibm.com/wle/EstimatorServlet>
- There are also workload estimators for WebFacing and HATS. Access for Web will be similar (depending on what functions of Access for Web are being used).

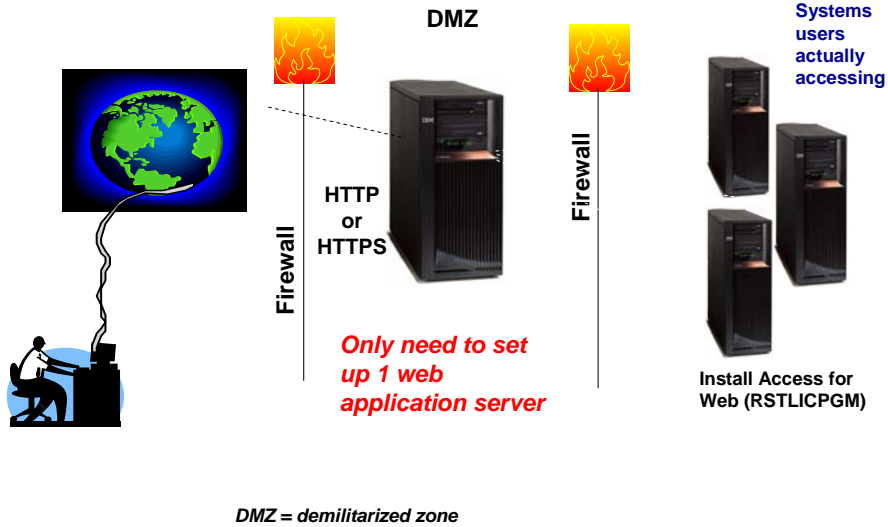
Fine-tuning your web application server

- If you are running WebSphere Application Server, refer to **Chapter 4 of the Buying and Selling Guide for WAS**. It has many good tips for getting WAS to perform optimally.
- Go to the **iSeries WebSphere** web page at www.ibm.com/eserver/iseries/software/websphere

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Setting up your web application server



Port Requirements Comparison

iSeries Access for Windows (5722-XE1)*

- Port 449 for Port Mapper
- Port 8476 (9476) for Sign-on
- Port 8470 (9470) for Central
- Port 8472 (9472) for Data Queues
- Port 8471 (9471) for Database
- Port 8475 (9475) for Remote Commands
- Port 8473 (9493) for Print
- Port 2001 (2010) for Web Admin
- Port 446 (448) for DDM
- Port 23 (992) for Telnet
- Port 137, 138 for NetServer
- Port 8480 for USF
- Port 389 (636) for LDAP
- Port 5555 (5566) for Mgmt Central
- Port 53 if using DNS Server

iSeries Access for Web (5722-XH2)

- Port 80 (or any other port) for HTTP Server
- Port 443 (or any other port) for HTTPS Server

*See Information APAR II12227 for detailed information

Get Access for Web running

- Print a copy of the Access for Web Install & Users Guide
 - Downloadable from web at <http://www.ibm.com/eserver/iseries/access/web>
- Install iSeries Access for Web from your OS/400 stacked media.
 - RSTLICPGM - Install Access for Web, 5722-XH2, into QIBM directory
- Configure and start Access for Web.
 - CFGACCWEB2 - Configure the iSeries Access for Web application server
 - STRACCWEB2 - Start the iSeries Access for Web application server.
- Set some policies to enable or limit access to various functions of Access for Web

Access for Web Documentation

<http://www.ibm.com/eserver/iseries/access/web/doc.html>

Different Ways to Roll Out Access for Web

- Use 'out of the box'
 - Set some policies to limit what functions are accessible to your users, and give them the url address to Access for Web
- Use 'out of the box', but set up predefined functions
 - You can set up preconfigured 5250 sessions that users (or groups of users) can run, can create predefined database requests for users to run, set up commands users can run, etc.
- Create your own 'window' to your system through Access for Web
 - Add company banners to screens, set up 'click and link' tasks that users can perform, set up macros to simplify user access.
- Use Access for Web with an IBM WebSphere Portal solution
 - A single unified workspace in which your employees, trading partners, and customers can easily find and use the applications and information that they need



Different Ways to Roll Out Access for Web

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions
- Create your own 'window' to your system through Access for Web
- Use the WebSphere Portal solution



Home Page entry point

Home Page = <http://<myiseries>/webaccess/iWAHome>

- Access for Web 'Home Page' out-of-the-box view
- This page is totally customizable



Customized Home Page

Customized view of the Home Page

- Could be used as 'entry point to iSeries'



Home Page = <http://<myiseries>/webaccess/iWAHome>

Your **Window** to your iSeries

Customized user 'window' to iSeries

Window is associated with OS/400 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, HATS, HATS LE) from here as well
- Link to other systems, not just iSeries servers

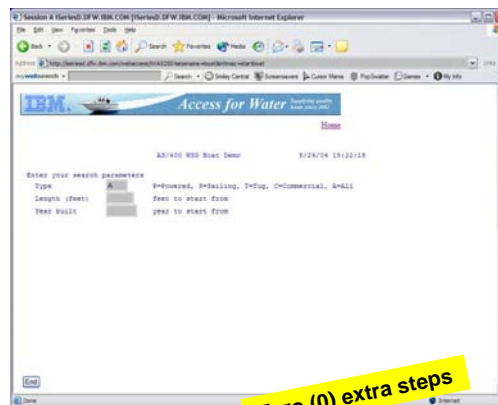


• One view and set of functions for the Accounting department

• Another view and set of functions for the Warehouse staff

Using 5250 emulator in Access for Web

- The company banner, 'Access for Water' is carried forward on all screens
 - Went into 'Customize / General' and pointed at file with the company .gif.
- 5250 emulator in Access for Web
 - Application looks better and did no work
 - Used macro support to bypass OS/400 sign-on screen and to start this BOATS application



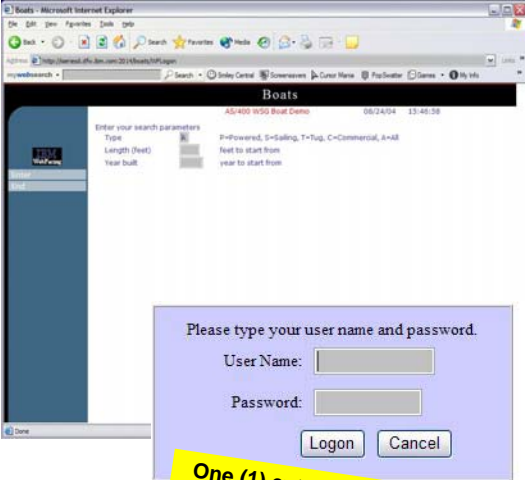
Zero (0) extra steps

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Using WebFacing version of application

Easy to link to other URLs

- This application was refaced using the IBM WebFacing Tool.
 - We must provide WebFacing with OS/400 userid and password before we can access application.
 - Access for Web and WebFacing are both web applications and cannot pass information between applications



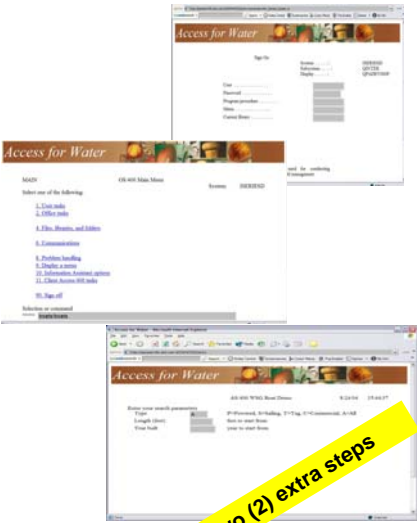
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Using HATS LE 5250

Easy to link to other web applications

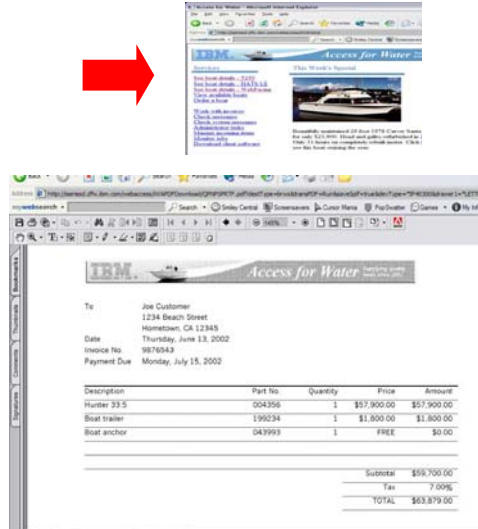
- Using HATS LE 5250 emulation to run application.
 - We go to HATS LE entry point:
<http://<myiseries>/HATSLE>
 - HATS LE takes user to OS/400 signon screen
 - Then user must start BOATS application (or there could be a menu with an option to pick the BOATS application)



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Task Oriented – not function oriented...

- Selected **'work with invoices'**
 - This takes user to 'Printer Output' – user's Spoolfile printer output
 - SCS or AFP printer output is converted to PDF 'on the fly' by Access for Web to PDF
 - Since it is now in .PDF format, I can print it to any network printer



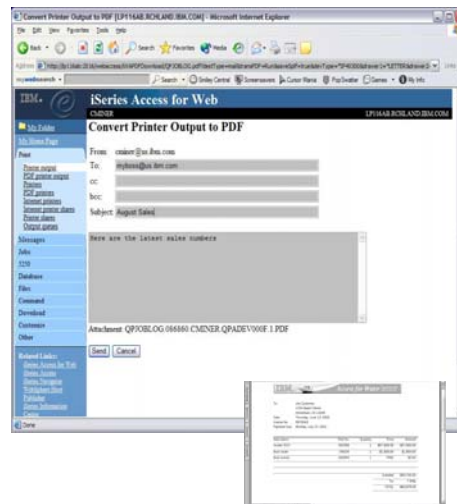
email PDF output

Email integrated with iSeries Access for Web

- Your mail server can be anywhere in your network
- Users receiving your email need only an email address

User selects an option in the Printer Output screen to **'email PDF output'**

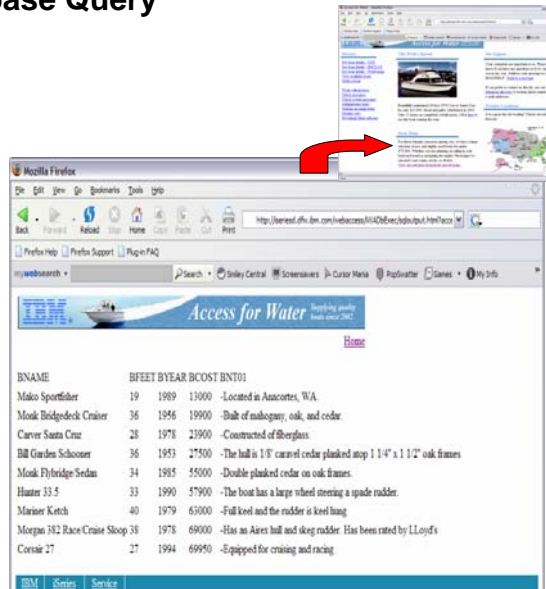
- The PDF document would then be included in an email note
- User's email address filled in; user only need to address it.



Run an iSeries Database Query

Clicked on 'View our selection of moderately priced boats'

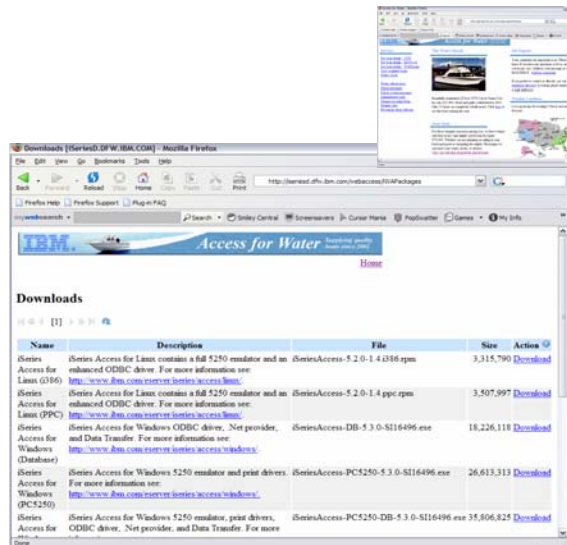
- Administrator had previously built an SQL Query using the iSeries Access for Web 'Database' function
- Could also have been set up to show in an .XLS or .PDF format (a variety of other types as well)



Mechanism to Distribute PC software to your users

Clicked on 'Download client software'

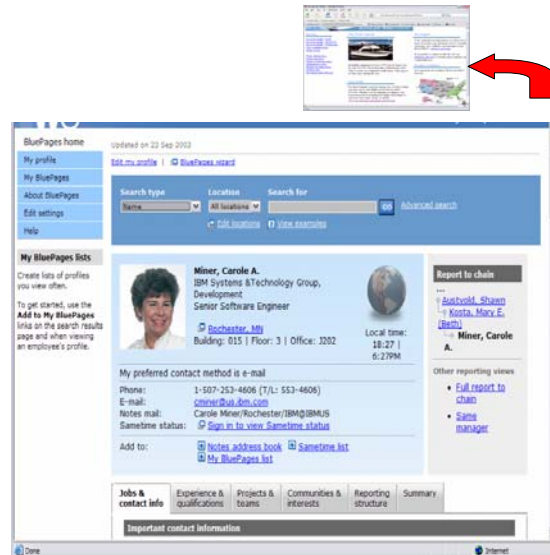
- Administrator had previously packaged some PC software using the iSeries Access for Web 'Download' function
- Administrator controls who will see each of these download options via OS/400 user profiles



Integrate use of IBM Telephone Directory Software

IBM Telephone Directory product (plus two other web applications) are shipped with i5/OS V5R3 at no additional charge

- Clicked on 'IBM Telephone Directory', and searched on name of employee



Try out Access for Web for yourself!

Access the following web site through your browser:

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

Use the following User ID and password to sign into the EXPERIENCED USER page:

- User ID of WUSER
- Password of DEMO2PWD

This shows the basic look of Access for Web as we ship it. You can try various functions - including working with printer output and the options we provide. You can click on the 5250 tab, sign onto the iSeries, then start an RPG application called BOATS and run it.

Start up a different another browser session to same url address above, and use the following User ID and password to sign into the Access for Water INEXPERIENCED USER page:

- User ID of BOATADMIN
- Password of DEMO2PWD

This is an example of how you might design a web page for your company's 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 WebFacing or HATS LE to run the application. Click on all 3 links and see the same application in different views. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc..

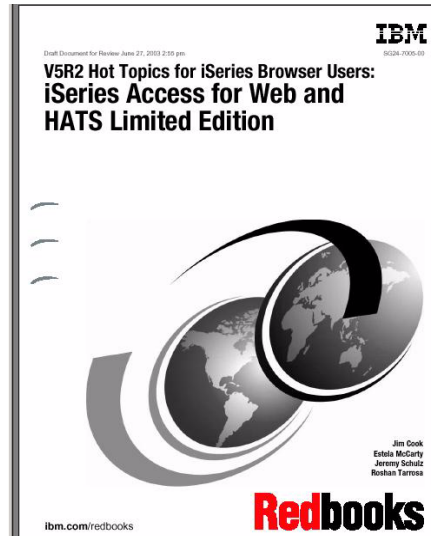
Redbook

Redbook... SG24-7005-00

- Download it from iSeries Access Web page at
- www.ibm.com/eserver/series/access/web

Article describing how 'Access for Water' web page was built

- Go to the iSeries Access Family web page at: www.ibm.com/eserver/series/access
- Click on the "Articles" link on the left-hand side of screen.
- Under the iSeries Access for Web, select the article written by Janet Weber in Jan 2003 entitled 'Build a Quick and Easy Web Site with iSeries Access for Web'.



Different Ways to Rollout Access for Web

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions
- Create your own 'window' to your system through Access for Web
- Use the WebSphere Portal solution



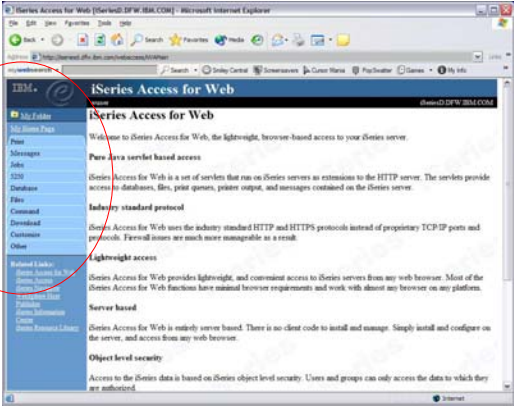
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Access for Web – Main page

Main Page = <http://<myiseries>/webaccess/iWAMain>

Users would typically use the Access for Web 'Main Page' url

They would use the navigation bar to move from function to function



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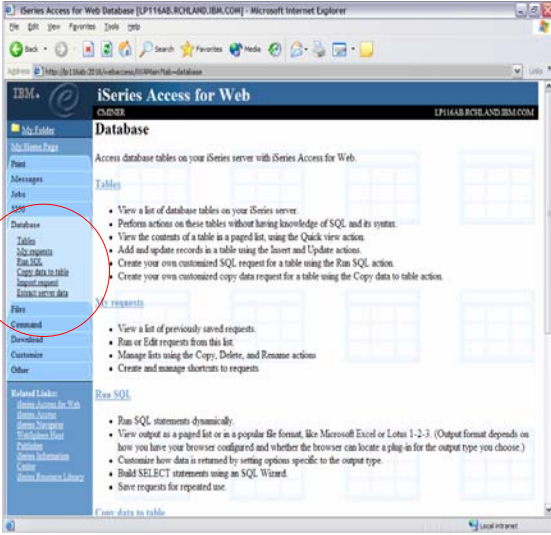
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Access for Web – Database tab

Many tabs to choose from

Many sub-options under each tab

You may wish to display only a few of these options to your users...



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Reduce functions you give to users

1 iSeries Access for Web
CMINER
IP11AAB.RCHLAND.IBM.COM

2 iSeries Access for Web
CMINER
IP11AAB.RCHLAND.IBM.COM

3 iSeries Access for Web
CMINER
IP11AAB.RCHLAND.IBM.COM

Reduce tabs that get displayed

Reduce options under tabs

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Run Pre-Configured 5250 Sessions

You have chosen to limit users to starting sessions that you have preconfigured

- User selects 'Configured Sessions'
 - Only one listed, only action user can perform is to 'start' it
 - You have removed user's ability to configure a session
- User clicks on Start

1 iSeries Access for Web
CMINER
5250

2 iSeries Access for Web
CMINER

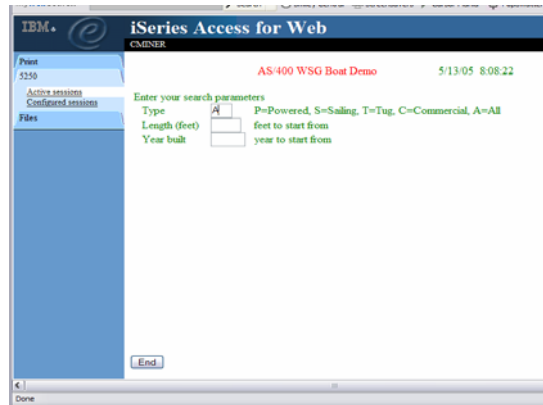
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why "i"? it's simple.

User can run 5250 application

User is placed in this application

- This session was configured to include a macro to bypass OS/400 screen and put the user directly into a specific application on the iSeries (could also have been to a menu screen)
- Use CHGUSRPRF, LMTCPB=Yes to remove command line from user's screen



Configured Session with no macro

Session could also have been configured to simply put user at an OS/400 sign-on screen

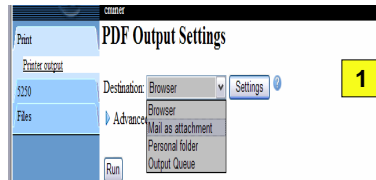
- This session was configured to use the 'user id' as the workstation / device id



Printer Output - Spoolfile

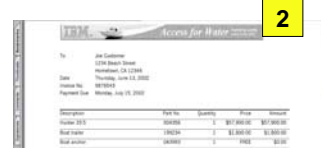
1. Requested 'View PDF'

- Can select any option on pulldown for my printer output



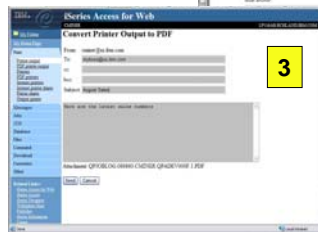
2. View in Browser

- Shows overlays, etc
- Can print on any printer in network



3. Send .PDF document in an email

- Mail server does not have to be installed on iSeries

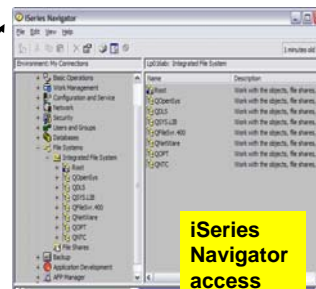


Integrated File System (IFS)

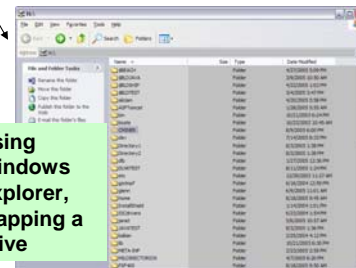
Direct access to all data on eServer i5

- Ability to manage multiple file systems with single command set
- Client-centric view of data
- Ability to infuse new technology
- Basis for server consolidation
- Represents entire eSeries i5 as single drive
 - i5/OS libraries and objects
 - PC directories and printers
 - UNIX/POSIX style directories
 - POSIX compliant name space
 - Folders and documents

Typical ways to access IFS

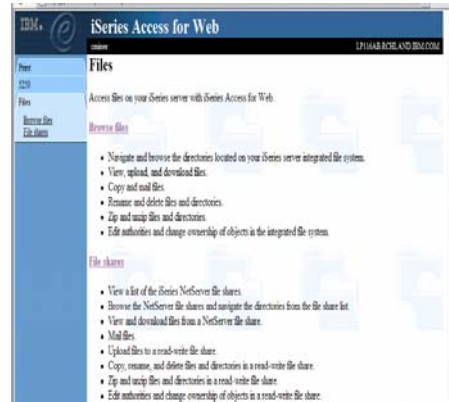


Using Windows Explorer, mapping a drive



Use iSeries Access for Web to work with Files in the IFS

- **Navigate and browse the directories located on your iSeries server integrated file system**
 - Don't need to map drives
 - Don't need to know directory structures
- **View, upload, and download files**
- **Copy and mail files**
- **Rename and delete files and directories**
- **Zip and unzip files and directories**
- **Edit authorities and change ownership of objects in the integrated file system**



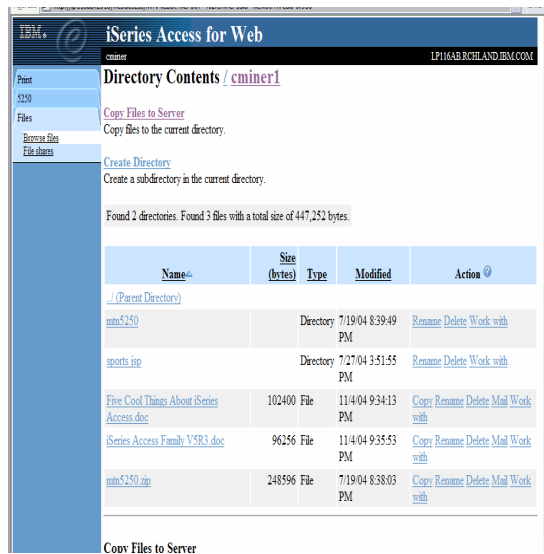
Browse Files - 'Filtered View'

When I click on 'Browse Files', I see only my 'cminer1' directory and its content

- Because the administrator set a 'Default Directory' policy for me

Actions I can perform:

- **Subdirectories:** Create new ones, Rename, Work with
- **Files:** Copy, Rename, Delete, Mail, Work with (ie, Zip, Unzip, etc)



Files Shares

File Shares shows NetServer view of IFS...

- Can see all Directories in IFS that have been set up with 'File Sharing'
- Some could be 'read only', some 'read/write'

Use iSeries Navigator to set up directories for 'sharing'

- NetServer has been included in OS/400 since V4R2

Share Name	Description	User Count	Permissions
ALANS		0	Read / Write
ALCANT	my folder	0	Read / Write
ALMA		0	Read / Write
ALMAHRE		0	Read / Write
ANTARES		0	Read / Write
CHINERJ	Carole Mose directory	0	Read / Write
GIORGANNI		0	Read / Write
HOMEPAGE		0	Read Only
PPALBRE		0	Read Only
LARIBALE		0	Read Only
QDQSBV	OS/400 -- Directory Services	0	Read / Write
QIBM	IBM Product Directories	0	Read / Write
ROOT		0	Read / Write
TEXT		0	Read Only
WALAB		0	Read / Write
WALABD	iSeries Access for Web lab, read only	0	Read Only
WALABW	iSeries Access for Web lab, read only	0	Read / Write
WSPRSTJ		0	Read / Write
YES		0	Read / Write

Similar to using Microsoft Windows server as your network file server except with this users are storing their PC data on the iSeries

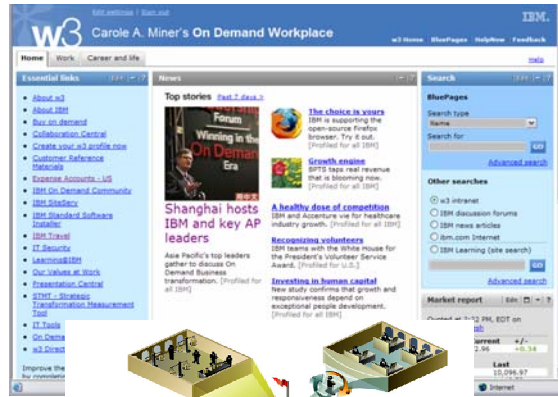
Different Ways to Rollout Access for Web

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions
- Create your own 'window' to your system through Access for Web
- Use the WebSphere Portal solution



IBM Portal Solutions

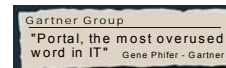
The next wave in technology



WebSphere Portal Offerings for i5/iSeries

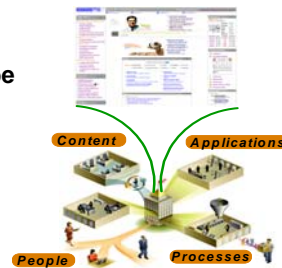
Flexible portal licensing (per-user OR per-processor pricing)

- Workplace Services Express V2.5 ships with the Enterprise Edition for i5 Models 550, 570 and 595
- WebSphere Portal Express Plus ships with Enterprise Edition for i5 Model 520
- Depending on the server model, you may also be entitled to services and education vouchers.



Improved Setup and Configuration with WSE V2.5

- Wizards to deploy on IBM i5/OS V5R3
- Improved performance and reduced system requirements
- Deploy a solution for document management, instant messaging and portal all on one server



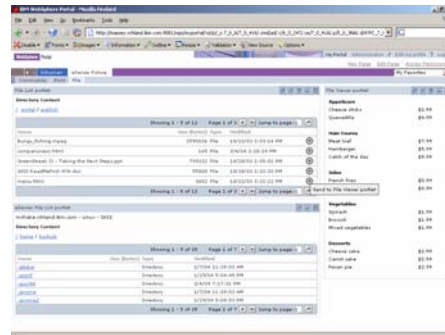
iSeries Access for Web + IBM WebSphere Portal

Runs on WebSphere Portal products

- With PTFs (software fixes), the V5R3 version of iSeries Access for Web can be used with WebSphere Portal products

Most functions run as portlets

- 5250 emulation runs in a portlet window
- Other functions of Access for Web can individually be assigned to a portlet window as well.
 - For example, one might have the 'Database' function in one window and 'Print' function in another window

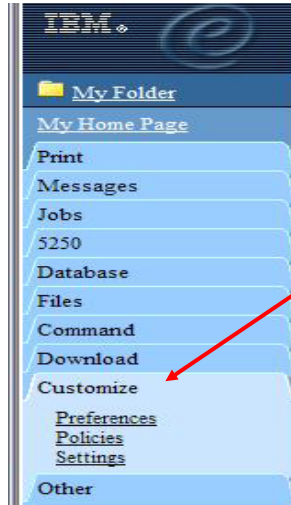


Simple Content Publishing

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions
- Create your own 'window' to your system through Access for Web
- Use the WebSphere Portal solution



Control User Access to functions



1. How do I keep my users from using all these functions?
2. How do I set up the environment for my users?
3. Should I let my users set have some individual screen settings for some functions?

Access for Web uses OS/400 User Profiles


- When an iSeries Access for Web user attempts to access any function on the iSeries, the following sequence of checks are made to authenticate user access:
 - User profile
 - Group profile(s)
 - *PUBLIC profile
- *PUBLIC profile is the set of default policy settings shipped with iSeries Access for Web
 - The defaults allow most functions to be available to all users
- The setting of these policies indicates what functions within iSeries Access for Web, a user can attempt to use.
 - For Example: Let's say you give users full access to the 'Database' tab. If you have Object Level authority set up on your data, when the user attempts to use one of the iSeries Access for Web Database GUIs to get at the database information, the users will get an OS/400 message indicating they are not authorized to access data

IBM eServer iSeries

Customize → Policies

Policies are used to control access to iSeries Access for Web functions

- For example, a Files access policy can be set to Deny or restrict a user or group from accessing the file function.
- Policies are saved and associated with the appropriate iSeries user or group profile.
- Each 'Category' expands for granular control



Action	Category	Description
Edit	5250	5250 user interface custom settings.
Edit	Command	Run batch command custom settings.
Edit	Customize	Preferences and policy administration custom settings.
Edit	Database	Database tables, requests, and run SQL custom settings.
Edit	Database connections	Create and edit database connection definitions.
Edit	Download	Download packages custom settings.
Edit	Files	Integrated file system and file share custom settings.
Edit	General	Page layout, language and character set custom settings.
Edit	Jobs	Work with jobs custom settings.
Edit	Mail	Send mail custom settings.
Edit	Messages	Display messages, send messages, and message queue custom settings.
Edit	My Folder	My Folder custom settings.
Edit	Print	Printer output, printers, printer shares and output queue custom settings.
Edit	Sametime	Lotus Sametime custom settings.
Edit	Other	Change password and other miscellaneous custom settings.

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IBM eServer iSeries


Policies - customize for all users at once

A quick strategy when rolling out Access for Web on your system:

- Use the Customize Group Profiles function and customize the ***PUBLIC** group profile
- **'Deny'** functions for all users in a single step
- Then **'Allow'** specific users access to functions via their User or Group profiles

You need ***SECADM** authority to customize profiles

- V5R3 Access for Web enhanced so ***SECADM** can never get locked out



Policy	Derived From	Action	S
Print access	Shipped default	Use current setting	Allow
Print tab	Shipped default	Use current setting	Show
Printer output	Shipped default	Use current setting	Allow
View printer output	Shipped default	Use current setting	Allow
Preferred format to preview AFP output	Shipped default	Use current setting	PHG
Preferred format to preview SCS output	Shipped default	Use current setting	PHG
View printer output as selected format	Shipped default	Use current setting	Allow
Hold/release printer output	Shipped default	Use current setting	Allow
Print airt	Shipped default	Use current setting	Allow
Delete printer output	Shipped default	Use current setting	Allow
Move printer output	Shipped default	Use current setting	Allow
Send output to another			

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IBM eServer iSeries

Set Policy to Default to Specific Directory in IFS

Set a 'Default Directory' for:

- ***PUBLIC**
- **Groups of users**
- **Specific user**

In this example, I went into CMINER profile, and set policy to filter IFS to 'CMINER1' folder...

Policy	Derived From	Action	Setting
Files access	Shipped default	Use current setting	Allow
Files tab	Shipped default	Use current setting	Show
Display directory contents in new window	Shipped default	Use current setting	No
Enable sort links for directory contents	Shipped default	Use current setting	Yes
Display directory contents statistics	Shipped default	Use current setting	Yes
Browse files	Shipped default	Use current setting	Allow
Copy files to server	Shipped default	Use current setting	Allow
Copy files from server	Shipped default	Use current setting	Allow
Default directory	Shipped default	Use current setting	jcmner1
Display			

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IBM eServer iSeries

Preferences

Preferences are used to control how functions operate

- For example, a user can select which columns to display when viewing a the My Folder list
- By default, all users can configure their own preferences
- Preferences are saved and associated with the user's iSeries user profile

Preference	Derived From	Action	Setting
My Folder link	Shipped default	Use current setting	Show
Mark folder items opened/unopened	Shipped default	Use current setting	Yes
My Folder notification	Shipped default	Use current setting	E-mail and Sametime
Notify on new folder items	Shipped default	Use current setting	Yes
Notify on folder items threshold	Shipped default	Use current setting	Yes
Folder items threshold	Shipped default	Use current setting	100 %
Notify on folder size threshold	Shipped default	Use current setting	Yes
Folder size threshold	Shipped default	Use current setting	100 %
E-mail address to notify	E-mail address	Use current setting	cmner@us.ibm.com
Sametime user to notify	Shipped default	Use current setting	
My Folder columns	Shipped default	Use current setting	Columns
My Folder sort column	Shipped default	Use current setting	Date/Time
My Folder sort order	Shipped default	Use current setting	Descending

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IBM eServer iSeries

•My Folder
 •Print
 •Messages
 •Jobs
 •5250
 •Database
 •Files
 •Commands
 •Customize
 •Downloads
 •Mail

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why "i"? it's simple.

IBM eServer iSeries

Start a 5250 Session and save it

- Select to 'Start Session'
- Provide name of iSeries you wish to connect to → can be on any iSeries in the network
- Provide how you want Workstation ID handled
- Can add a predefined macro → for example, to bypass sign-on screen

You then save your 'Active' session and give it a name

- Next time you want to start that session, you simply click on 'Configured Sessions'

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IBM eServer iSeries

Configured Sessions

Select 'Configured' session you wish to start

- Work with your Configured Session
- Change defaults, view, etc
- Add macro
- Set up Shortcut to your Configured session for other users

Session	Server	Action	Shortcut
Accounting System	LP116AB.RCHLAND.IBM.COM	Start Copy Delete Rename Create Shortcut Edit	No
Inventory System	LP116AB.RCHLAND.IBM.COM	Start Copy Delete Rename Create Shortcut Edit	No
Main System	LP116AB.RCHLAND.IBM.COM	Start Copy Delete Rename Create Shortcut Edit	No
Shortcut to Inventory System	LP116AB.RCHLAND.IBM.COM	Start Copy	Yes

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IBM eServer iSeries

Creating a Macro

Step 1

- Record a macro
 - Start Session and get to OS/400 sign-on screen
 - Go to bottom of screen and start macro record
 - Continue recording macro until you have reached spot you want users to come into (ie, OS/400 Main Menu, your own menu, a particular application...)
 - Go down to bottom of screen and stop macro recording
 - When you get to the save macro screen, select a macro name
- Edit Macro to bypass sign-on screen
 - Go to 'Start Session' and go to bottom of page and select 'My Macros' to work with macro you just created
 - Remove your password that was recorded and put in [password], then remove your workstation id and put in [user] in the macro.
 - This is documented in 5250 User Interface Help at bottom of 'Configure New Session' page

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Record and Edit Your Macro

Start at OS/400 sign-on screen and click on **Start Recording** to create your macro

Then **edit** the macro you just created

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IBM eServer iSeries

Configure a session with new macro

Step 2

- Select **Configured Sessions**
 - Then select '**Configure New Session**'
- In 'Session', give this a meaningful name
 - Select iSeries to connect to. If no name provided, will default to iSeries presently connected to
- Select your **macro**
- Select how you want user's workstation ID set
- Set up view (Web or Traditional, select how you want screen set up)
- Select your colors for screen

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IBM eServer iSeries

Create Shortcut for your Users

Step 3

- Select 'Configured Sessions' from Navigation pane
- Then select 'Create Shortcut'
- Set up who can use this shortcut under 'access'
- You can then go into Customize to limit users to 'start' action only

The screenshot shows the 'iSeries Access for Web' interface. On the left, the 'Configured Sessions' table is visible with columns for Session, Server, ACTION, Shortcut, BY, and Access. A row for 'Shortcut to Boats' is highlighted. On the right, the 'Create Shortcut' dialog is open, showing fields for 'Create shortcut to', 'Shortcut name', and 'Access'. A red arrow points from the 'Access' field in the dialog to the 'Access' column in the table. Another red arrow points from the 'Edit' link in the table to a text box.

Anytime you 'edit' your configured session in the future, the shortcut to this session will also be updated

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IBM eServer iSeries

Policies – customize 5250 access

Step 4

- Set up 5250 sessions for specific users, groups of users, all users
- Full control of what users can access or do in 5250
 - For example, you may want to prohibit a group of users from configuring 5250 sessions

The screenshot shows the 'Policies - 5250' configuration screen. It features a table with columns for Policy, Derived From, Action, and Setting. The table lists various policies such as '5250 access', '5250 tab', 'Start non-configured sessions', 'Prompt when starting non-configured sessions', 'Maximum active sessions', 'Inactive session timeout', 'Configured sessions to use for defaults', 'Save settings as user defaults', 'Load settings from user defaults', and 'Load settings from shared'. Each policy has a dropdown menu for 'Action' and a dropdown menu for 'Setting'.

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IBM eServer iSeries

- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Commands
- Customize
- Downloads
- Mail

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IBM eServer iSeries

Work with iSeries Database

- Tables
 - View contents of a table using Quick View
 - Add or update records using 'Insert and Update'
 - Perform actions without having knowledge of SQL and its syntax
- List previously saved requests
 - Run or Edit Requests
 - Copy, Delete, and Rename actions
- RUN SQL using SQL Wizard
- Exchange spreadsheet data with iSeries
- Import existing Client Access Express for Windows Data Transfer requests
- Extract Server data

Easy to use GUIs for working with the iSeries database

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Upload PC Data to the iSeries



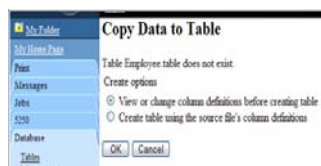
- Upload data from a variety of file types
 - Excel, XML, Lotus, etc

- Put into iSeries database
 - 'Replace' contents of table
 - 'Append' to existing data

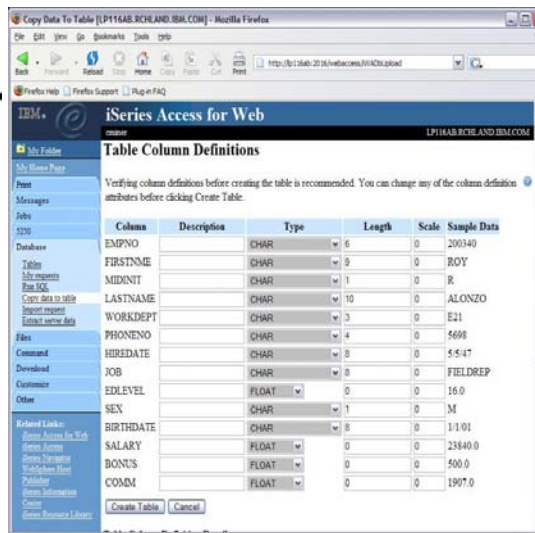
- If no table exists on the iSeries, you will get a wizard to help you create a new table



Create iSeries Table



Wizard to help you create an iSeries table from your PC spreadsheet



IBM eServer iSeries

Database Tables

Can:

- Insert
- Update
- Run SQL
- Copy Data to Table
- Quick View

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IBM eServer iSeries

Download Database Information from iSeries

- Run SQL allows you to dynamically run SQL statements
 - Could copy/paste complex SQL statements in here...
- Variety of output types
 - PDF, Excel, 1-2-3, XML, etc
- Destination
 - Browser
 - Mail as attachment
 - Personal Folders
- Can save request
 - My Requests, Give Shortcut to others

Includes SQL Wizard for user who doesn't know SQL

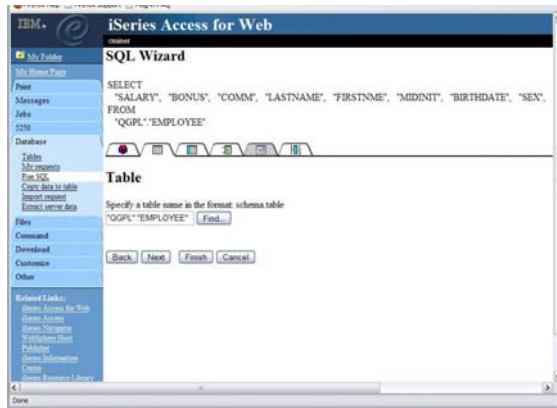
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Create Database Requests with SQL Wizard

SQL Wizard enables you to:

- Select **tables**
- Select which **columns** to return
- Add **conditions** to your select statement
- Select the columns by which you want the data **sorted**



Database - Run Requests



- You could give users or groups of users some database requests that you have created for them.
- They can only run these specific requests



Dynamic Queries – V5R3

SQL Wizard now supports **dynamic database queries**

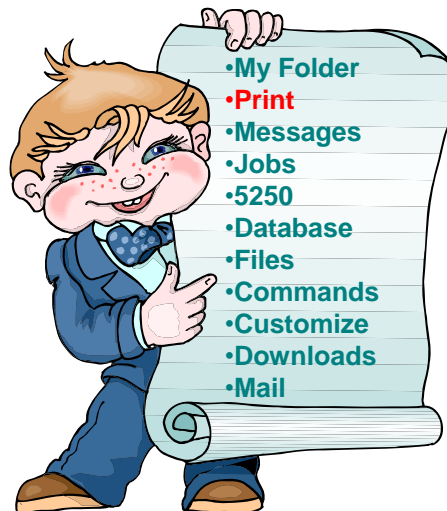


- Contains the ability to generate SQL statement with markers for conditional values

- For example, an Administrator might build a query to retrieve some particular customer information, then when the end user runs the query a prompt would appear for user to key in 'customer name', 'customer number', etc.

The screenshots show the iSeries Access for Web interface. The top screenshot displays the 'SQL Output' window with a table of employee data. The middle screenshot shows the 'Employee Record' form with a text input field for 'Enter 6-Digit Employee Number' containing '000010'. The bottom screenshot shows a table of system requests with columns for Request, Description, Action, Shortcut, By, and Access.

Request	Description	Action	Shortcut	By	Access
Accounting Programs	History	Run Copy Delete Rename Create	No	cmrtr	cmrtr
Employee Output	History	Run Copy Delete Rename Create	No	cmrtr	cmrtr
Fill out requested		Run Copy Delete Rename Create	No	cmrtr	cmrtr
Find Employee Record		Run Copy Delete Rename Create	No	cmrtr	cmrtr
Find Employee Record		Run Copy Delete	Yes	cmrtr	*PUBLIC



Work with Printer Output, Printers, Queues

- Typical end user printer tasks

- Printer Output
- PDF Printer Output



- Tasks possibly oriented more toward system operators, administrators, programmers, etc

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



Work with Printer Output Queue - Spoolfile

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

My 'printer output'

- Can view it
- Or can select 'Work with' for more options

Easy-to-use GUI for working with my printer output

- Don't need to sign onto a 5250 session, and run commands to get to spool file

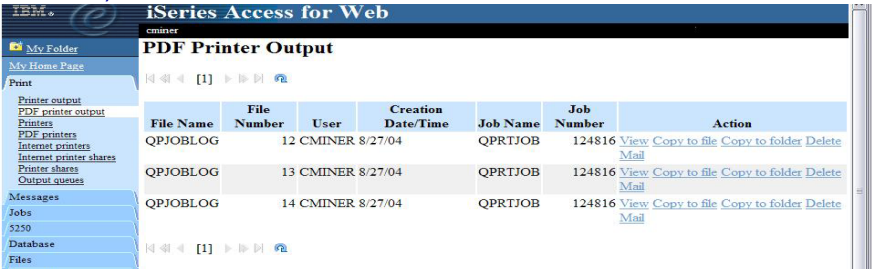
File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	Action	User	Job Name	Job Number
QPIOBLOG	QPADEV0009	7:19:04 PM	1	1	Ready	Work with	CMINER	QPADEV0009	066872
QPIOBLOG	QPADEV000V	7:20:04 AM	2	1	Ready	Work with	CMINER	QPADEV000V	087982
QPIOBLOG	QPADEV000V	7:20:04 AM	2	1	Ready	Work with	CMINER	QPADEV000V	087983
QPIOBLOG	CMINER11	7:26:04 PM	1	1	Ready	Work with	CMINER	CMINER11	088403
QPIOBLOG	QPADEV0005	8:20:43:19 PM	2	1	Ready	Work with	CMINER	QPADEV0005	103974

IBM eServer iSeries

PDF Printer Output

<http://<myiseries>/webaccess/iWAPDFPrinterOutput>

- Printer output (Spooled output) is **automatically** converted to PDF and placed in PDF Printer Output Queue
 - Can View; Copy to File; Copy to Folder; Delete; Mail; Delete
 - Note: No Work With feature. Actual host application could additionally send spoolfile printer output to another output queue (in SCS or AFP mode)




File Name	File Number	User	Creation Date/Time	Job Name	Job Number	Action
QPJOBLOG	12	CMINER	8/27/04	QPRTJOB	124816	View Copy to file Copy to folder Delete Mail
QPJOBLOG	13	CMINER	8/27/04	QPRTJOB	124816	View Copy to file Copy to folder Delete Mail
QPJOBLOG	14	CMINER	8/27/04	QPRTJOB	124816	View Copy to file Copy to folder Delete Mail

Note: IBM Infoprint Server (5722-IP1) needed to use this tab

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IBM eServer iSeries



- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Commands
- Customize
- Downloads
- Mail

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why "i"? it's simple.

My Folder

Folder resides in the iSeries IFS

- Folder does not show up in IFS directory listing
- Administrator can control size of Folders (new in V5R3)

Folder can only be accessed by owner

- Good for long-running requests (ie, actions performed asynchronously so the browser is not tied up)
- An easy way to avoid large attachments (ie, a large query result)

Can place information in other users' Folders

- Performing requests for someone else
- Mechanism for workflow.

Combine email and My Folder functions to:

- Perform requests for someone else
- Distribute results to a group of users
- Send email to others when you place information in their Folder
- Be notified when new items are placed in your Folder

Simply click on 'My Folder' to see items

- Can store items, email them, delete them, etc
- Do not need to understand any Directory structure to put information in My Folder or another's Folder



Item	Status	From	Date/Time	Size	Action
<input type="checkbox"/> Status	Unopened	cmminer	8/31/04 6:43 PM	376	Open Delete Rename Copy Copy file Mail Mark opened
[SQL output in PDF]					
<input type="checkbox"/> SQL output in PDF	Unopened	cmminer	8/31/04 6:43 PM	1775	Open Delete Rename Copy Copy file Mail Mark opened
<input type="checkbox"/> Status	Unopened	cmminer	8/31/04 6:25 PM	351	Open Delete Rename Copy Copy file Mail Mark opened
[SQL output in XLS]					
<input type="checkbox"/> SQL output in XLS	Unopened	cmminer	8/31/04 6:25 PM	9295	Open Delete Rename Copy Copy file Mail Mark opened
<input type="checkbox"/> Printer output in PDF	Unopened	CMINER	8/26/04 9:01 PM	6770	Open Delete Rename Copy Copy file Mail Mark opened

IBM eServer iSeries

- My Folder
- Print
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- 5250
- Database
- Files
- Commands**
- Customize
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IBM eServer iSeries

Run iSeries CL Commands

1 Search for Command

2 Then Run Command

Command	Library	Description
WRKACTJOB	QSYS	Work with Active Jobs
AJ	QDEVELOP	BATS - Work with Active Jobs
WRKSBSJOB	QSYS	Work with Subsystem Jobs
WRKUSRJOB	QSYS	Work with User Jobs
WRKPMSCH	QSYS	Work With Scheduled Jobs
DSPACTPJ	QSYS	Display Active Prestart Jobs

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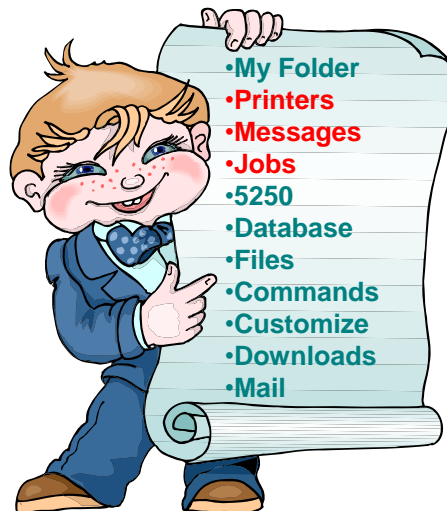
why "i"? it's simple.

My Commands

User can run a command, then Save it

- Commands can be saved by running the **Save** action for a command that was run in the current browser session.

Then next time they could simply select **My Commands** and run the previously saved commands



IBM eServer iSeries

Jobs / Server Jobs for end user

The screenshot shows two windows from the iSeries Access for Web interface. The top window, titled 'Jobs for cminer', displays a table of user jobs. The bottom window, titled 'Server Jobs for cminer', displays a table of server jobs.

Job	Status	Type	Entered System	Action
CMINERO	Running	Interactive	9/1/04 2:39:32 PM	Hold Delete/End Job Log Printer Output Properties
QPADEV000M	Running	Interactive	9/1/04 2:31:24 PM	Hold Delete/End Job Log Printer Output Properties
QPADEV0009	Running	Interactive	9/1/04 11:25:01 AM	Hold Delete/End Job Log Printer Output Properties

Job	Detailed Status	Server	Run Priority	Thread Count	Action
QOYNSRVER	Waiting for response	OS-400 Open List Server	20	1	Hold Detached Job Log Properties
QZDASONT	Waiting for time interval	OS-400 TCP Database Server	20	1	Hold Detached Job Log Properties
QZDASONT	Waiting for time interval	OS-400 TCP Database Server	20	1	Hold Detached Job Log Properties
QZRCRVS	Waiting for time interval	OS-400 TCP Remote Command Server	20	1	Hold Detached Job Log Properties
QZRCRVS	Waiting for time interval	OS-400 TCP Remote Command Server	20	1	Hold Detached Job Log Properties
QZRCRVS	Running	OS-400 TCP Remote Command Server	20	1	Hold Detached Job Log Properties
QZRCRVS	Waiting for time interval	OS-400 TCP Remote Command Server	20	1	Hold Detached Job Log Properties

- List and manage your user jobs
- View job logs for your active jobs
- View printer output for your completed jobs

- List and manage your server jobs
- View job logs for server jobs

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IBM eServer iSeries

Messages

The screenshot shows the 'Messages' page in the iSeries Access for Web interface. It includes a navigation menu on the left and a main content area with links and descriptions for various message-related actions.

Messages
Access messages on your iSeries server with iSeries Access for Web.

- [Display messages](#)
 - Display, answer and manage messages in the message queue for the logged on user.
- [Send message](#)
 - Send a message to users and message queues.
- [Send break message](#)
 - Send a Sametime announcement to iSeries Access for Web Sametime users.
 - Send a break message to iSeries work stations.
- [Operator messages](#)
 - Display, answer and manage messages in the system operator message queue.
- [Message queues](#)
 - List message queues on the iSeries server.
 - Select, display and manage messages in message queues.

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IBM eServer iSeries

Send Message / Send Break Message

- **Send Messages** – will go in User's 'Display Messages' queue
- **Send Break Message**
 - Will generate an instant message for Sametime users
 - Will send Break Message to iSeries workstation users
- **Use Add Button** to retrieve the list of workstations configured and Sametime users on the server
 - Can specify *ALLWS to send the message to all configured workstations

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IBM eServer iSeries

•My Folder
 •Print
 •Messages
 •Jobs
 •5250
 •Database
 •Files
 •Commands
 •Customize
 •Downloads
 •Mail

New in V5R3

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IBM eServer iSeries

Downloads – for file/program distribution

http://<myiseries>/webaccess/iWAPackages

- Mechanism to distribute files / programs to users
- Administrator can create downloads
- Management functions included for updating downloads and for controlling access to them



Name	Description	File	Size	Action
iSeries Access for Linux	iSeries Access for Linux contains a full 5250 emulator Access for and an enhanced ODBC driver. For more information see: http://www.ibm.com/resources/iSeriesAccessLinux	iSeriesAccess-5.2.0-1.3.i386.rpm	2,593,887	Download
iSeries Access for Linux (PPC)	iSeries Access for Linux contains a full 5250 emulator Access for and an enhanced ODBC driver. For more information see: http://www.ibm.com/resources/iSeriesAccessLinux	iSeriesAccess-5.2.0-1.3.ppc.rpm	2,750,340	Download
Windows AFP Viewer Plug-in	The AFP Viewer plug-in lets you view AFP documents from a Web browser.	gwp32dn.exe	6,459,708	Download

V5R3 shipped view
Users can download Access for Linux and AFP Viewer Plug-in products

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IBM eServer iSeries

Example of how you might use this function

Scenario

- I have some users who need the ODBC driver from iSeries Access for Windows. What would be an easy way to make this available?

Solution

- Use iSeries Access for Windows to build an install image that contains only the ODBC drive
- Use iSeries Access for Web to enable users to install it on their PCs

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IBM eServer iSeries

Create Tailored Install Image of ODBC driver

Create Tailored Installation Image

You can create your own tailored installation image so that your users can install only those components you want them to install.

By default, all components will be included in the installation image. Simply deselect the components you want to exclude.

If the Secure Sockets Layer (SSL) support is available, the SSL support can be included in the tailored image.

Next >

Use iSeries Access for Windows Tailored Install wizard to capture only the Windows ODBC driver

Component Selection

Select the components you want to install. Deselect the components you want to exclude.

Components	Size	License Required
<input checked="" type="checkbox"/> Required Programs	16048 K	
<input type="checkbox"/> Optional Components	0 K	
<input type="checkbox"/> Series Navigator	0 K	
<input checked="" type="checkbox"/> Data Access	314 K	
<input type="checkbox"/> Data Transfer	0 K	
<input checked="" type="checkbox"/> ODBC	314 K	
<input type="checkbox"/> OLE DB Provider	0 K	
<input type="checkbox"/> .NET Data Provider	0 K	
<input type="checkbox"/> Lotus 123 File Format Support	0 K	

Drive: C: Space Required: 16 M Space Available: 56823 M

Help < Back Next > Cancel

- Run CWBINIMG.BAT
 - This program is in :\\<myiseries>qibm\ProdData\CA400\Express\InstallImage
- Then zip up the directory that gets created

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why "i"? it's simple.

IBM eServer iSeries

Use the 'Create Download' feature

- Use Create Download to make a file available for distribution
- The file is copied to the server on which iSeries Access for Web is running
- After the download is created, it is added to the Downloads list.

iSeries Access for Web

Create Download

Name: ODBC Driver VSR3
 Description: ODBC Driver VSR3
 File: Y:\ODBC VSR3.zip

Create Download Details

- Use Create Download to make a file available for distribution. The file is copied to the server on which iSeries Access for Web is running. After the download is created, it is added to the Downloads list.
- When a download is created, it can only be accessed by the user who created it and by users with *SECADM authority. Use the Work with action from the Downloads list and select the Manage Access link to make the download available to other users.

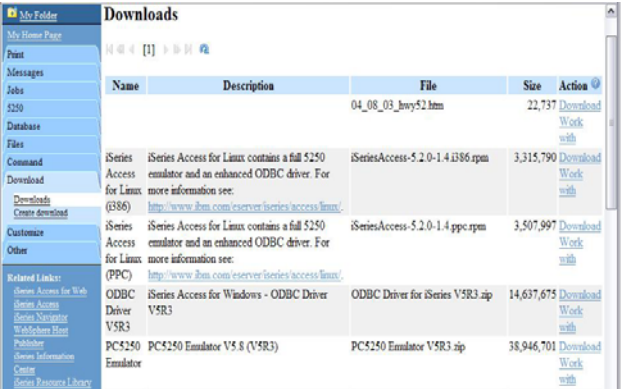
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IBM eServer iSeries

ODBC now added to Download List

- When a download is created, it can only be accessed by the user who created it and by users with ***SECADM** authority
- Use the **Work with action** from the Downloads list and select the **Manage Access** link to make the download available to other users



Name	Description	File	Size	Action
04_08_03_bny52.htm			22,737	Download Work with
iSeries Access (i386)	iSeries Access for Linux contains a full 5250 emulator and an enhanced ODBC driver. For more information see: http://www.ibm.com/eserver/iseries/access/linux/	iSeriesAccess-5.2.0-1.4.i386.rpm	3,315,790	Download Work with
iSeries Access (PPC)	iSeries Access for Linux contains a full 5250 emulator and an enhanced ODBC driver. For more information see: http://www.ibm.com/eserver/iseries/access/linux/	iSeriesAccess-5.2.0-1.4.ppc.rpm	3,507,997	Download Work with
ODBC Driver V5R3	iSeries Access for Windows - ODBC Driver	ODBC Driver for iSeries V5R3.zip	14,637,675	Download Work with
PC5250 Emulator	PC5250 Emulator V5.8 (V5R3)	PC5250 Emulator V5R3.zip	38,946,701	Download Work with


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IBM eServer iSeries

Work With Download options

- Edit Name and Description
- Update File
 - The new file will replace the current file that is available for downloading.
 - The current file will no longer be available to download.
- Delete
- Manage Access
 - This action enables you to either give or deny access to users.



IBM eServer iSeries Access for Web

cmisr

My Folder

Work With Download

Name: ODBC Driver V5R3

Description: iSeries Access for Windows - ODBC Driver V5R3

File: ODBC Driver for iSeries V5R3.zip

Size: 14,637,675

Last updated: Jun 28, 2004 9:05:22 PM

Action

- Edit name and description
- Update file
- Delete
- Manage access

Related Links:

iSeries Access for Web

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IBM eServer iSeries

Manage Access to New Download File

Set up who can access new download file

- Deny Access defaults to only the creator of the download can access and manage this download
- Now select the users you wish to access it
 - Can be All Users (*PUBLIC), groups of users, specific users
- Set who else can manage this download

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IBM eServer iSeries

Download and Install ODBC on Desktop

- If you had originally zipped up the Tailored Install directory using some product like **Install Shield's Package For the Web**, then it would initiate the install for the end user.
- Here I had used **PKZIP for Windows**, so I have to go into the directory and start the install by pressing on **SETUP.EXE**

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Summary



Beta (next release!) available via web download

New servlet support

- **Database**
 - Support for Open Office file spreadsheet
 - Import Query Manager and Query/400 requests
- **5250**
 - Bypass sign-on
 - Support HTML keyword
 - Hotspots for URLs
- **Administration**
 - Support for transferring user data settings to another user
- **Single sign-on using authenticated Websphere credential**

New portlet support

- **Database**
 - SQL Requests portlet
 - SQL statement builder portlet
 - "SQL Query" portlet to accept click-to-action requests
- **New portlet to allow changing of iSeries password**

Download from
www.ibm.com/eserver/iseries/access/web

Who will benefit from Access for Web

- Any iSeries customer -- with any hardware model - can quickly get started working in a Web environment
 - If your system is not capable of running WAS, you can easily install the ASF Tomcat web application server. ASF Tomcat runs on hardware with 70 CPW and 256 MB memory
- Any iSeries customer -- with little Web experience - can easily get started working in a Web environment
 - iSeries Access for Web is simple to install and configure
 - There is no programming skills required to set it up
- Any iSeries customer -- with no training or setup on users' desktops - can extend the reach of iSeries resources to your end users
 - Use customize facility to set up view ("window") to iSeries and to control access to various iSeries resources
 - All built around OS/400 user profiles
 - Uses standard HTML, uses existing HTTP/HTTPS ports

A great first step to get your i5 / iSeries into e-business

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eServer	IBM (logo)	iSeries

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