IBM System i5

Session: 9:30-10:40, Feb 27, 2007

iSeries Access for Web
The Browser Alternative

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Simplify your IT.

Abstract

If you are looking for a extremely simple and highly functional way to work with iSeries resources, then iSeries Access for Web is the best option!

Users simply start up their favorite browser and point-and-click their way through easy-to-use GUIs and wizards. This session shows how users can run host applications, work with the database, printers, and the IFS. Network administration is a breeze as nothing is installed or configured on the PC, and control is at the server. You will see how to:

- **Run host applications (5250 emulation), upload and download database information, and use the iSeries as a file and print server**

- **Convert spooled printer output to PDF and either print it or email it**

- **Work with printers, jobs, run commands, send messages -- all through easy-to-use GUIs designed around the browser interface**

- **How an administrator can set up different views ('window') of the iSeries for different groups of users.**

- **Learn about the new features in the V5R4 version of iSeries Access for Web.**

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Requirements?

Would you like to see some other features in iSeries Access for Web?

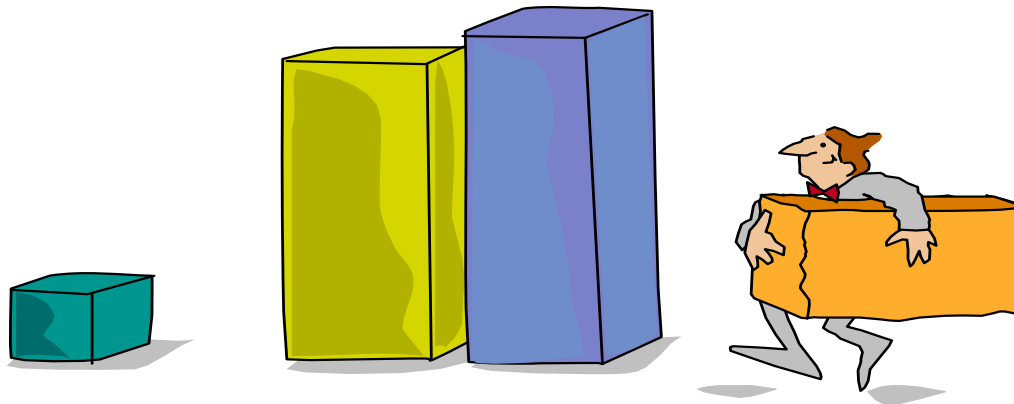**Please submit requests for enhancements via the FITS system.**

The url is:

http://www.ibm.com/eserver/iseries/access/

And click on link "Request for Design Change"

This really helps development get new functions into the planning process

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Packaging and Ordering

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iSeries Access Family Packaging

V5R4 5722-XW1 iSeries Access Family	V5R3 5722-XW1 iSeries Access Famil	V5R2 5722-XW1 iSeries Access Family
• iSeries Access for Windows, 5722-XE1, V5R4	• iSeries Access for Windows, 5722-XE1, V5R3	• iSeries Access for Windows, 5722-XE1, V5R2
• iSeries Access for Web, 5722-XH2, V5R4	• iSeries Access for Web, 5722-XH2, V5R3	• iSeries Access for Web, 5722-XH2, V5R2
• iSeries Access for Linux, 5722-XL1	• iSeries Access for Linux, 5722-XL1, V1.10	• iSeries Access for Linux, 5722-XL1, V1.0
• iSeries Access for Wireless, 5722-XP1, V5R4	• iSeries Access for Wireless, 5722-XP1, V5R3	• iSeries Access for Wireless, 5722-XP1, V5R2
	• HATS Limited Edition V5.0, 5724-F97-01	• HATS Limited Edition V4.0 5724-D34-01
		• WebSphere Host Publisher, 5724-B81, V4.0, 5724-B81, V4.01
	V5R3 customers not wanting to upgrade to i5/OS V5R4 but want the new V5R4 iSeries Access Family clients can order no-charge Feature No. 2648 of Product No. 5722-XW1	V5R2 customers not wanting to upgrade to i5/OS V5R3 but want the new V5R3 iSeries Access Family clients can order no-charge Feature No. 2647 of Product No. 5722-XW1

V5R2 End of Support (EOS) is 4/30/2007

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Table of Contents

- **What is Access for Web?**

- **Getting Started**

- **Ways to roll out to end users**

- **Control Access to functions**

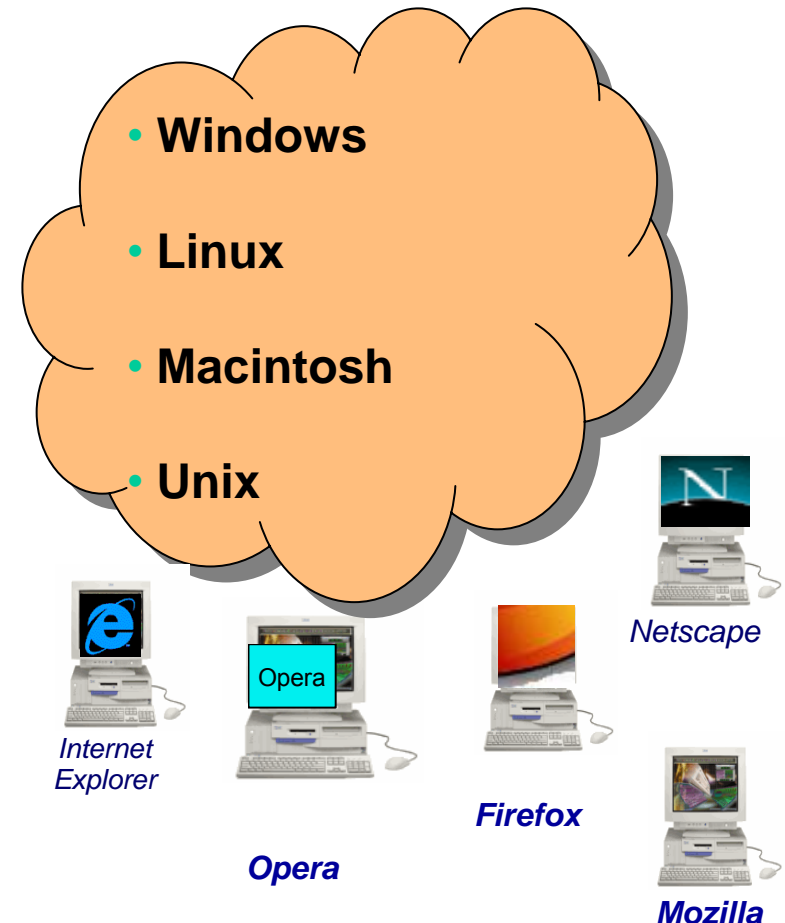*Simplify your IT.*

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**

- **Windows**
- **Linux**
- **Macintosh**
- **Unix**

Netscape

Opera

Internet Explorer

Firefox

Opera

Mozilla

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Fully Integrated with your Browser

- **Use any code page available in your browser**
  - **iSeries Access for Web, V5R4, translated into 38 NLVs (including DBCS**
    - **New Japanese Feature 2930 in V5R4**
  - **See screens in preferred language**

- **Use any keyboard setting available in Windows**

- **Font Size**

- **Set up your SSL through your browser**

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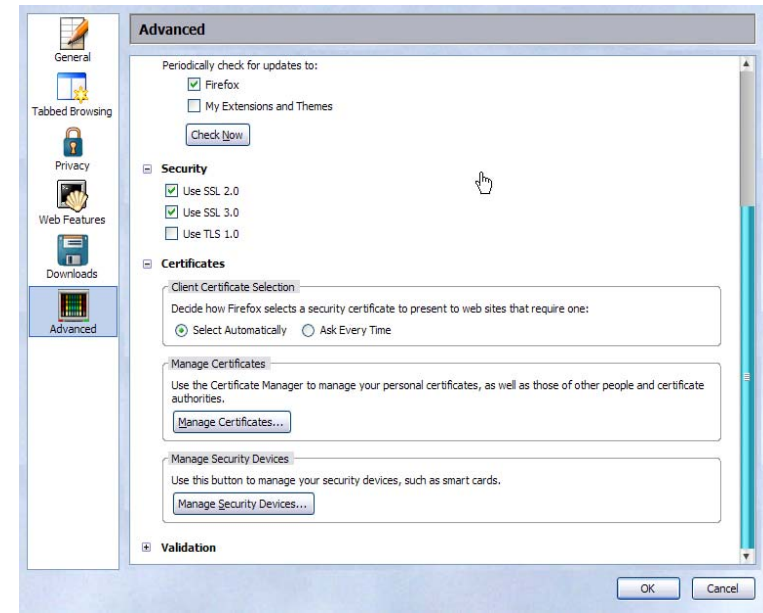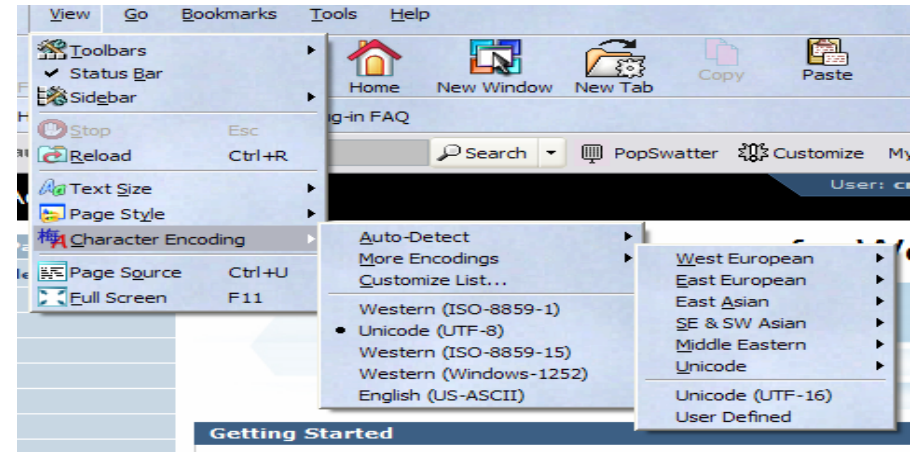
Functions you can perform with iSeries Access for Web 5722-XH2, V5R4

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**
- **Browse File Shares**
- **File Shares**

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**

Download

My Personal Folder

Jobs
- **User Jobs**
- **Server Jobs**

Customize
- **Preferences**
- **Policies**
- **Settings**
- **Transfer configuration**

Commands
- **Run commands**
- **My commands**
- **Search**

Other
- **Bookmarks, Change Password, Connection Pool, Status, Trace, About**

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Getting Started

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

HTTP
Server

Application
Server

Servlet

Web browser

Internet

JSPs

Java
Beans

Enterprise Server
Host applications
Database

Tier 1

Tier 2

Tier 3

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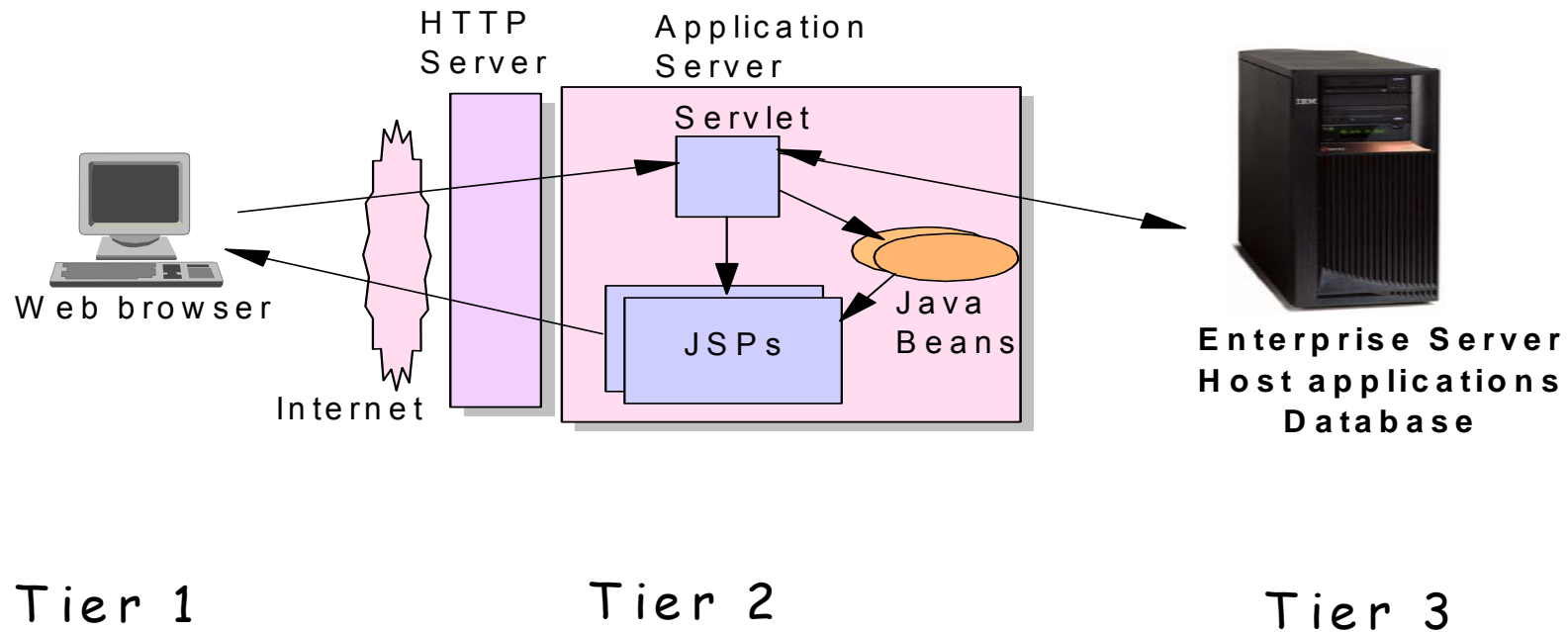
Supported Web Application Servers

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

- **Integrated web application server – announced 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**

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

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October 10 Announcement: "System i Web Enablement Made Easy"

Two pieces relate to iSeries Access for Web:

- **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

- **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

PTFs required:
- **iSeries Access for Web: PTF SI25122**
- **HTTP Server: Group PTF SI99114 (Level 6)**
- Refer to: **http://www.ibm.com/eserver/iseries/access/web/servicepacks.html**

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http://www-03.ibm.com/servers/eserver/iseries/software/ websphere/wsappserver/

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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

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Performance Considerations…

Use the IBM eServer Workload Estimator at
http://www-912.ibm.com/wle/EstimatorServlet

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Setting up your web application server

DMZ = demilitarized zone

Systems users actually accessing

Firewall

Firewall

Running here:
- **HTTP Server**
- **WAS or ASF Tomcat**
- **Access for Web**

Install Access for Web (RSTLICPGM)
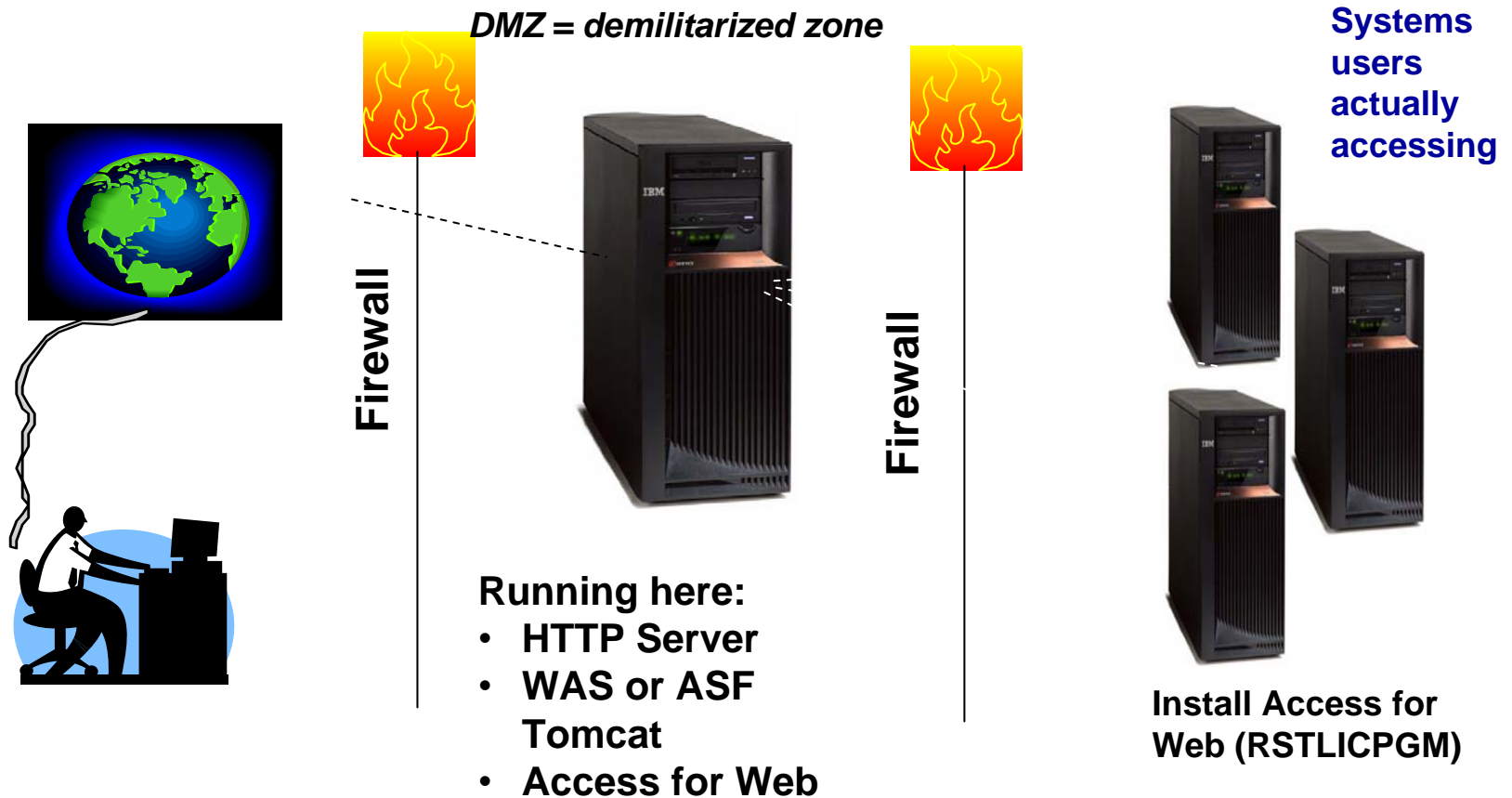
Only need to set up 1 web application server

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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 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

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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 i5/OS 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**

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Access for Web Documentation on the Web…

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

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4 CL Commands in Access for Web

- **Configure** Command example when using WebSphere Application Server V5.1 - Express for iSeries
  – CFGACCWEB2 -appsvrtype *WAS51EXP -wasinst iwa51exp -appsvr iwa51exp
- **Start** Command example when using WebSphere Application Server V5.1 - Express for iSeries
  – STRACCWEB2 APPSVRTYPE(*WAS51EXP) WASINST(MYINST) APPSVR(*DEFAULT)
- **End** Command example when using WebSphere Application Server V5.1 for iSeries
  – ENDACCWEB2 APPSVRTYPE(*WAS51) WASINST(DEPTXYZ) APPSVR(*DEFAULT)
  – Sometimes you may need to end Access for Web so you can make changes, then start it again.
- **Remove** Command
  – The Remove iSeries Access for Web (RMVACCWEB2) command is used to remove the iSeries Access for Web configuration from a web application servers

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Users can now Connect!
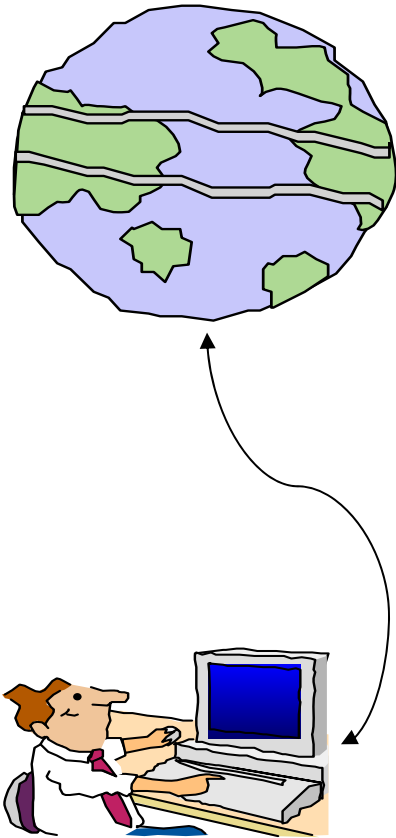
- **Open browser**
- **Key in iSeries url**
- **Prompted for i5/OS user id and password**

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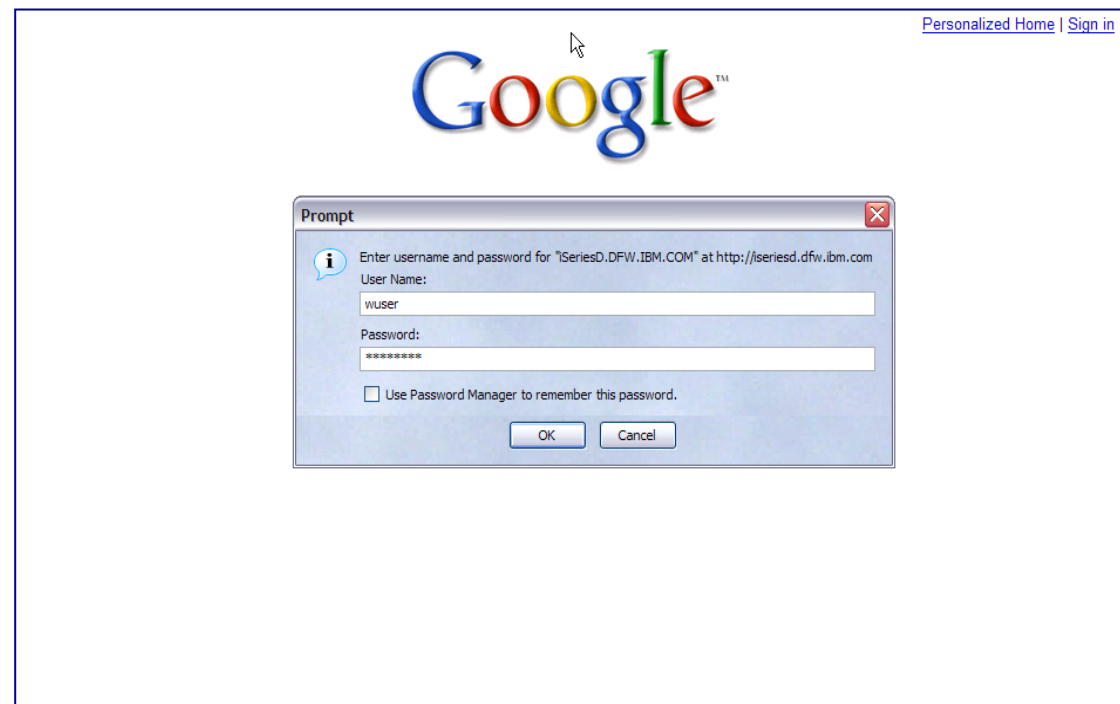
Different Ways to Roll Out Access for Web

- **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 the 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

Simplify your IT.

Different Ways to Roll Out iSeries 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 iSeries Access for Web**

- **Use the WebSphere Portal solution**

Simplify your IT.

Home Page entry point

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

- **Access for Web 'Home Page' out-of-the-box view**

- **This page is totally customizable**

New 'look' in V5R4...

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Customized Home Page

Customized view of the Home Page

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

- **Let's drill down and look at some of this…**

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

Simplify your IT.

Your **Window** to your i5/OS

http://<myiseries>/webaccess/iWAHome

Window view is associated with i5/OS user profiles

- **An administrator can create many different views ('window') for different types of users -- based on user profile / group profile**

- **Can tightly control what functions a user can perform on your i5/OS**

- **Tie in with other web applications (such as WebFacing and HATS) from here as well**

- **Link to other systems, not just System i**
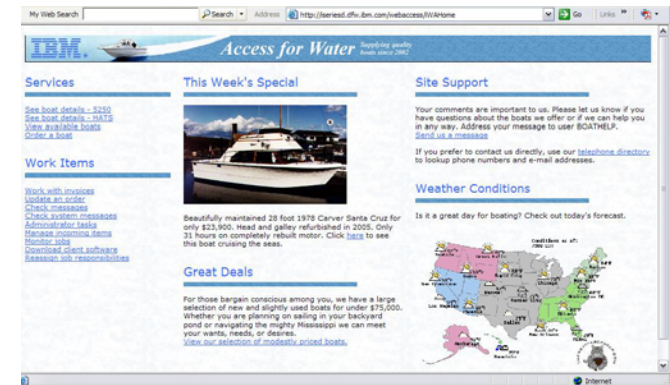
Customized 'window' to i5/OS

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

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

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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**

- **Can use 5250 Bypass Signon (new in V5R4) to bypass i5/OS sign-on screen**

- **Can use Access for Web Macro support to start the RPG application (BOATS)**

Zero (0) extra steps

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Host Access Transformation Services (HATS)

Easy to link to other web applications

- **Work with 'AS/400 WSG Boat Demo' application that was refaced using the IBM HATS Tool**

- **May require additional sign-on**

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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, user can print it to any network printer**

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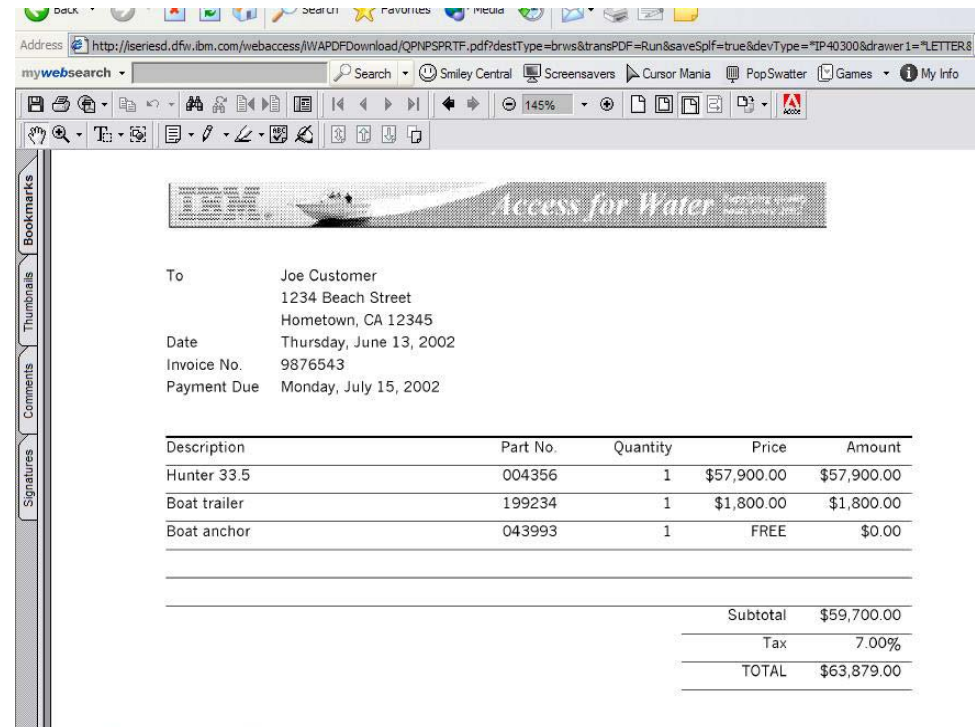
email PDF output

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 is then included in an email note**
- **User's email address filled in; user only needs to address it.**

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Run an iSeries Database Query

Clicked on 'View our selection of modestly 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 output types as well**

BNAME	BFEET	BYEAR	BCOST	BNT01
Mako Sportfisher	19	1989	13000	-Located in Anacortes, WA.
Monk Bridgedeck Cruiser	36	1956	19900	-Built of mahogany, oak, and cedar.
Carver Santa Cruz	28	1978	23900	-Constructed of fiberglass.
Bill Garden Schooner	36	1953	27500	-The hull is 1/8' caravel cedar planked atop 1 1/4" x 1 1/2" oak frames
Monk Flybridge/Sedan	34	1985	55000	-Double planked cedar on oak frames.
Hunter 33.5	33	1990	57900	-The boat has a large wheel steering a spade rudder.
Mariner Ketch	40	1979	63000	-Full keel and the rudder is keel hung
Morgan 382 Race/Cruise Sloop	38	1978	69000	-Has an Airex hull and skeg rudder. Has been rated by LLoyd's
Corsair 27	27	1994	69950	-Equipped for cruising and racing

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Mechanism to Distribute PC software/files to 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 i5/OS user profiles**

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Integrate use of IBM Telephone Directory Software

**IBM Telephone Directory product
(plus two other web applications)
are shipped with i5/OS V5R3/4 at no additional charge**

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

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Try out Access for Web for yourself!

Start your browser and connect to the following web site:
http://iseriesd.dfw.ibm.com/webaccess/iWAHome (case sensitive)

User ID = WUSER **Password = demo2pwd**	**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.**
User ID = BOATADMIN **Password = demo2pwd**	**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..**

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More Documentation…

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

- **iSeries News, Oct 2006, "Tailor iSeries Access for Web" by Janet Weber**

http://www.systeminetwork.com/artarchive

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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 has many entry points

'URL Interfaces to iSeries Access for Web' manual available on the web

- **Can enter at many different pages**

- **Can use navigation bar to move from function to function**

http://<myiseries>/webaccess/iWAMain

http://<myiseries>/webaccess/iWA5250

http://<myiseries>/webaccess/iWASpool

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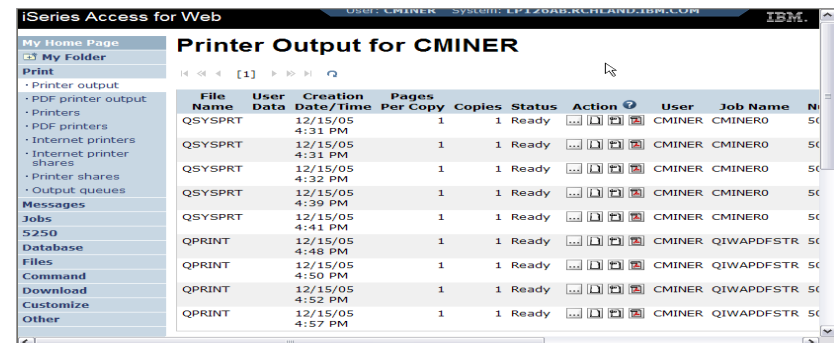
Reduce functions you give to users
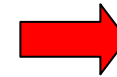
Reduce tabs that get displayed
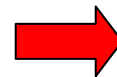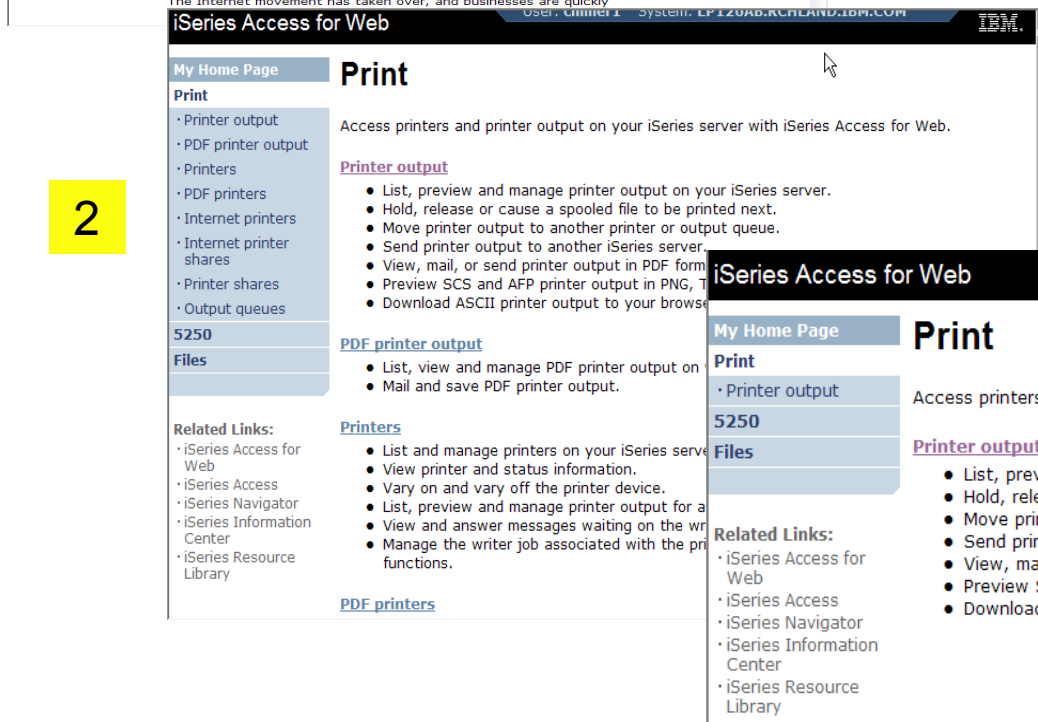
Reduce options under tabs

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Printer Output - Spoolfile

1. **Print Tab**
   - **User only has one option available, ie, 'Printer**

2. **Default look of 'Printer Output'**

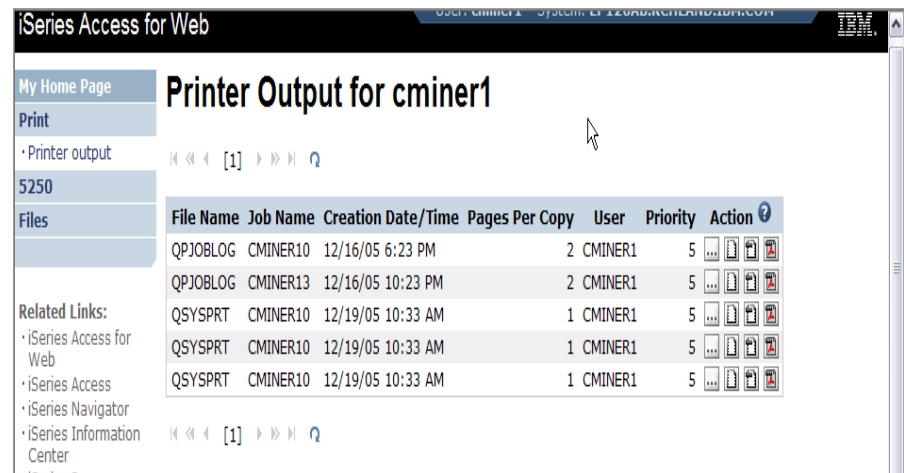3. **Customized look of 'Printer Output' for signed on user**
   - **Removed many of the columns of printer output**
   - **Reordered list**
   - **Removed several end user actions**

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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**

1

iSeries Access for Web   User: cminer1   Syst

My Home Page
Print
· Printer output
5250
Files

PDF Output Settings

Destination: Browser ▾   **Settings** ⓘ

Browser
Mail as attachment
▸ Advanced   Personal folder
Output Queue

Run

Related Links:
· iSeries Access for

2

Access for Wat

To   Joe Customer
            1234 Beach Street
            Hometown, CA 12345
Date   Thursday, June 13, 2002
Invoice No. 9876543
Payment Due Monday, July 15, 2002

Description	Part No.	Quantity	Price	Amount
Hunter 33.5	004356	1	$57,900.00	$57,900.00
Boat trailer	199234	1	$1,800.00	$1,800.00
Boat anchor	043993	1	FREE	$0.00

1 of 1   8.5 x 11 in

3

iSeries Access for Web   User: cminer1   System: LP126AB.RCHLAND.

My Home Page
Print
· Printer output
5250
Files

Convert Printer Output to PDF

From: cminer@us.ibm.com
To:
cc:
bcc:
Subject:

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

Attachment: QSYSPRT.507343.CMINER1.CMINER10.3.PDF

Send   **Cancel**

IBM | iSeries | Service

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Run Pre-Configured 5250 Sessions

You want to limit users to only starting 5250 sessions that you have preconfigured

- **You have removed user's ability to configure a session**

- **User selects 'Configured Sessions'**
  - **Only one listed, only action user can perform is to 'start' it**

- **User clicks on Start**

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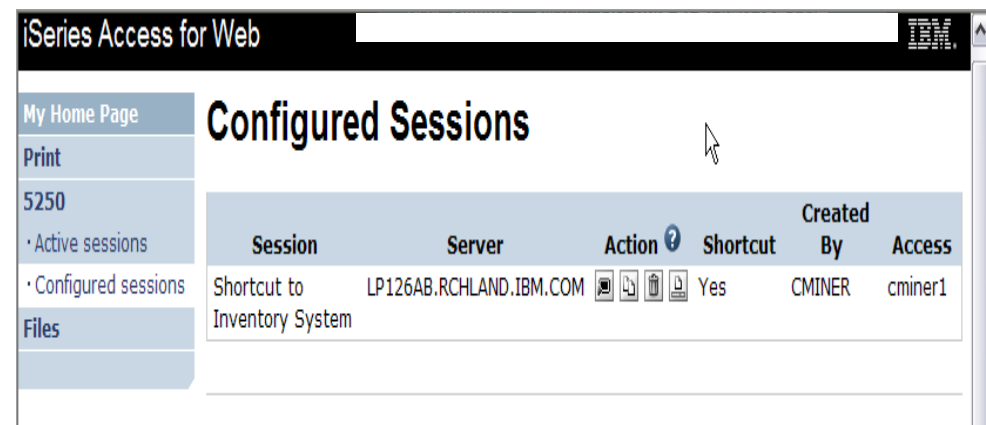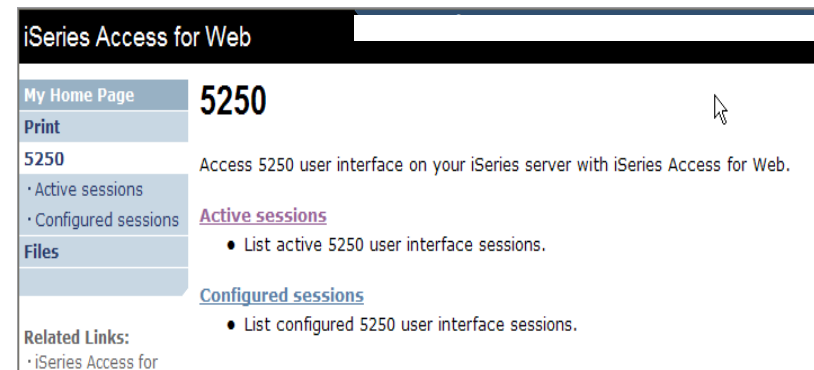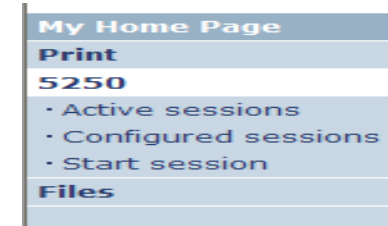
User can run 5250 application

User is placed in this application

- **The session could be configured to include a macro to put the user directly into a specific application on the iSeries**
    - **Or on a menu screen**

- **Use CHGUSRPRF, LMTCPB=Yes to remove command line from user's screen**

Simplify your IT.
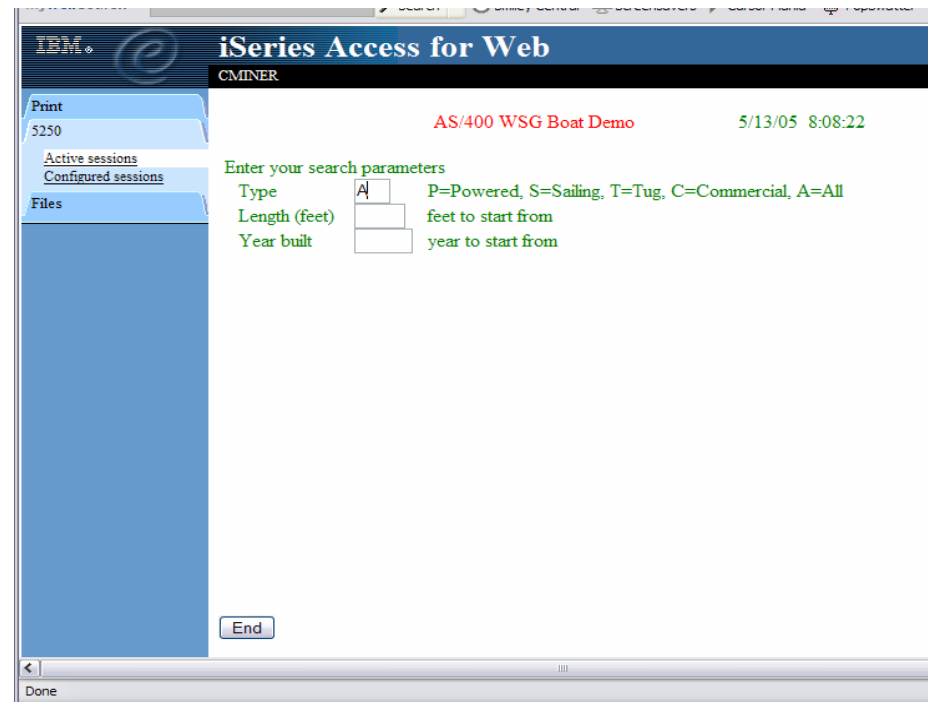
Change look of 5250 session

1. **Default 'web' look**
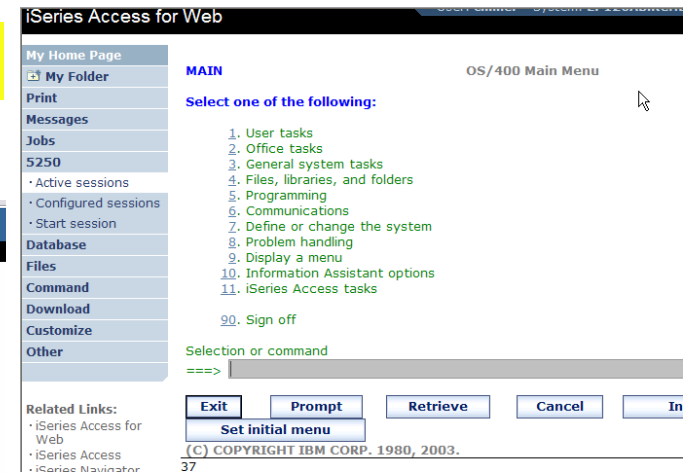
2. **Changed colors, added keypad at side, changed buttons at bottom to words**

3. **Removed navigation bar, put keypad on top**
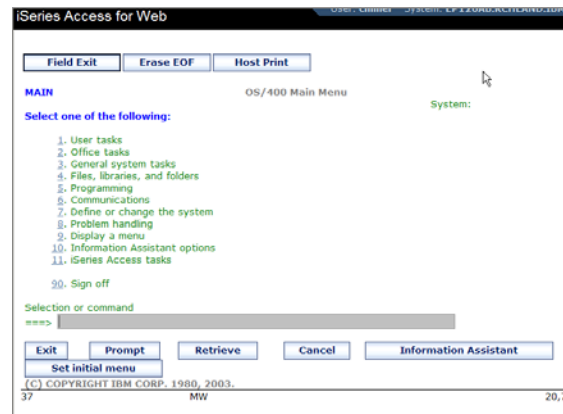
4. **Selected 'traditional' view, removed navigation bar**

Simplify your IT.
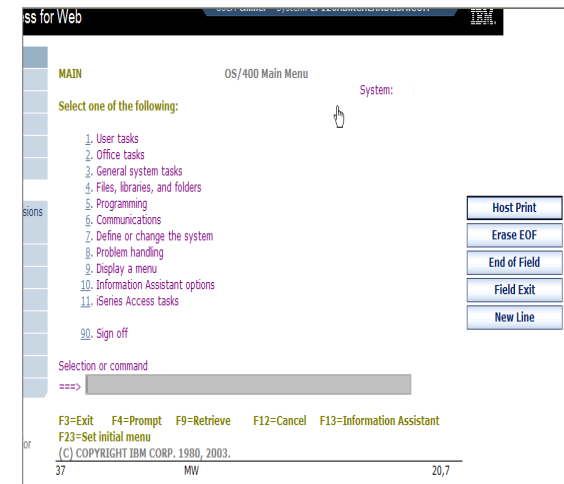
Work with Files in the IFS

- **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**
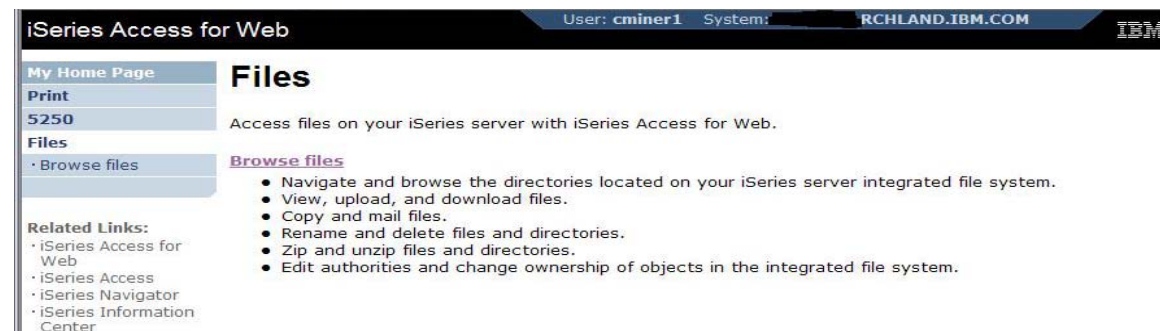
- **View, upload, and download files**

- **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**

Simplify your IT.

Browse Files - 'Filtered View'

When I click on 'Browse Files', I see only a directory called 'cminer1' 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)**

Simplify your IT.

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

Simplify your IT.

Portal Solutions – the next wave in technology

For most organizations, the decision to invest in an enterprise portal is not a question of "if," but "when"?
(Craig Roth, VP META Group, 6/3/03)

Content

Processes

People

Applications

Simplify your IT.

WebSphere Portal Offerings for i5/iSeries

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 iSeries, you may also be entitled to services and education vouchers.

Simplify your IT.
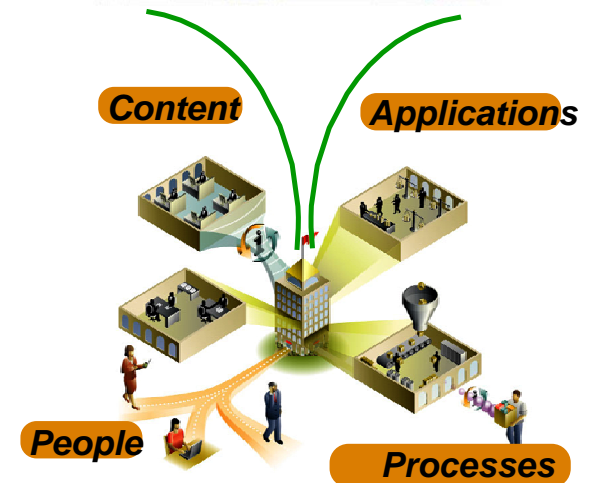
Portal with iSeries – additional info

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

eServer iSeries systems purchased before July 12, 2005	
eServer iSeries Model/Edition	**User licenses of IBM WebSphere Portal – Express Plus V5.0.2 included**
eServer iSeries 825, 870, and 890 with Enterprise Edition	20
eServer i5 520 with Enterprise Edition	20
eServer i5 550 with Enterprise Edition	40
eServer i5 570 with Enterprise Edition	60
eServer i5 595 with Enterprise Edition	80

eServer iSeries systems purchased on or after July 12, 2005	
IBM WebSphere Portal – Express Plus	
eServer iSeries Model/Edition	**User licenses of IBM WebSphere Portal – Express Plus V5.0.2 included**
eServer iSeries 825, 870, and 890 with Enterprise Edition	20
eServer i5 520 with Enterprise Edition	20

IBM Workplace Services Express	
eServer iSeries Model/Edition	**User licenses of IBM Workplace Services Express V2.5 included**
eServer i5 550 with Solution Edition	40
eServer i5 550 with Enterprise Edition	40
eServer i5 570 with Enterprise Edition	60
eServer i5 595 with Enterprise Edition	80

Simplify your IT.

Portal built for IBM Employees

Simplify your IT.

Portal built on i5/OS

Simplify your IT.

iSeries Access for Web Portlets on iSeries Portal

Simplify your IT.

Portlet Support added to iSeries Access for Web

V5R4	V5R3 PTF SI11914 (May 2004)	V5R3 (Jan 2004)

• **Single Sign-on (SSO)**
  – **Via WAS Security model**
  – **5250 Bypass signon option**
• **Database**
  – **OpenOffice spreadsheet format (.ods)**
  – **iSeries SQL Requests**
  – **Viewer to look at iSeries SQL results**
• **Files**
  – **Zip function to zip files in IFS**
• **iSeries Credentials**
  – **Users can change i5/OS password via iSeries Access for Web, and it will additionally update currently defined credentials with the new password value.**
	• **File**
	• **Print**
	• **Database**
	• **Command**
	• **Credentials**
	• **Related Links**
		• **5250**
		• **iFrame**
		• **Welcome**

Simplify your IT.

iSeries Access Portlet Views – V5R4

Simplify your IT.

- ## **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**

Simplify your IT.

Control User Access to functions

My Home Page
⊞ My Folder
Print
Messages
Jobs
5250
Database
Files
Command
Download
Customize
· Preferences
· Policies
· Settings
· Transfer configuration
Other
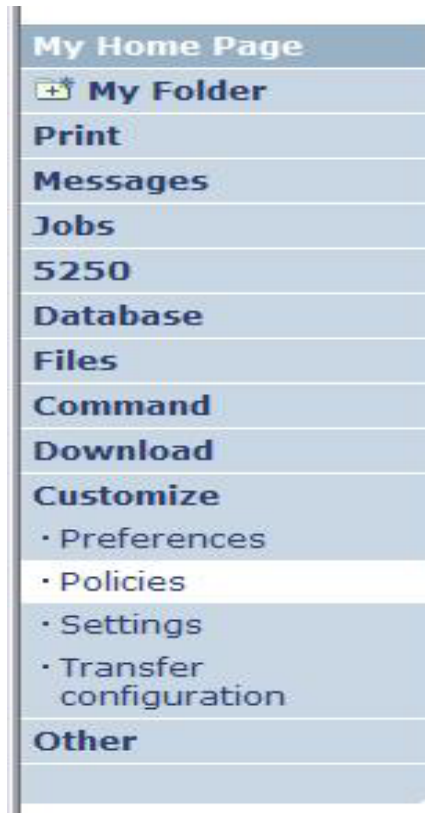
1. **How do I keep my users from using all these functions?**

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?**

You need *SECADM authority to customize profiles

Simplify your IT.

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 Access for Web

- **The defaults allow most functions to be available to all users**

The settings in these policies indicate 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.**
- **You have Object Level authority set up on your data**
- **When a user attempts to use one of the iSeries Access for Web Database GUIs to get at the database information, the user will get an i5/OS message indicating they are not authorized to access data**

Simplify your IT.

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 i5/OS user or group profile.**

- **Each 'Category' expands for granular control**

My Home Page
⊞ My Folder
Print
Messages
Jobs
5250
Database
Files
Command
Download
Customize
· Preferences
· Policies
· Settings
· Transfer configuration
Other

Related Links:
· iSeries Access for Web
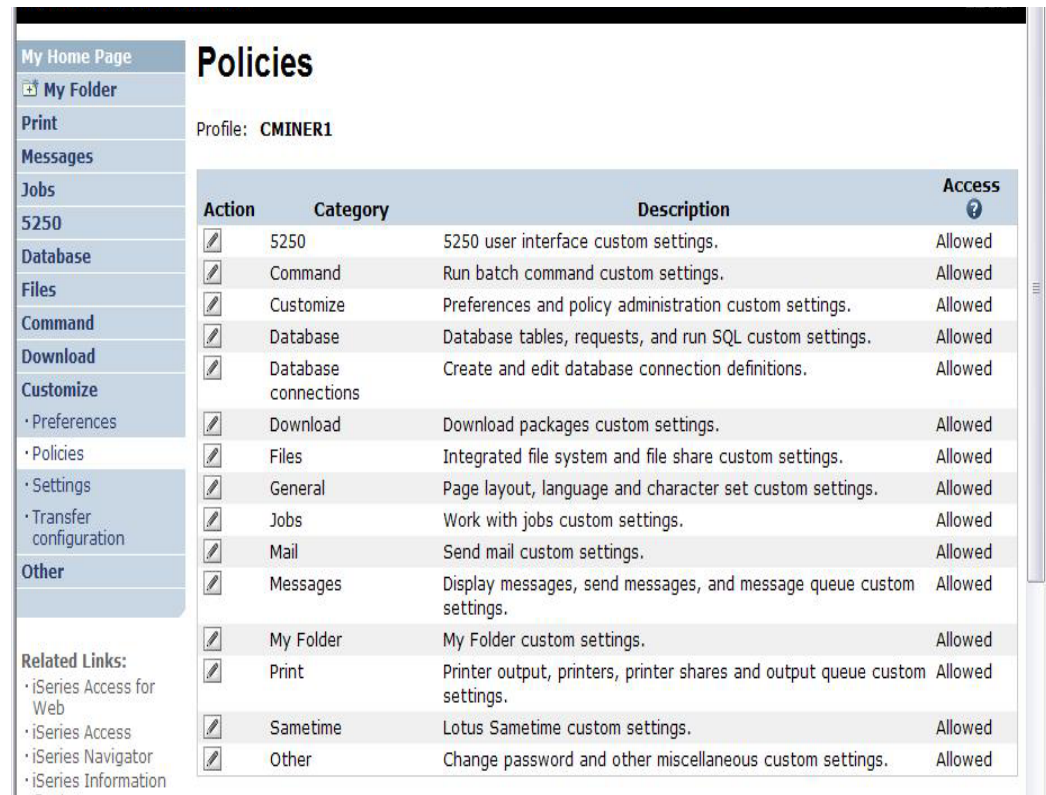· iSeries Access
· iSeries Navigator
· iSeries Information Center

Policies

Profile: **CMINER1**

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

Simplify your IT.

Policies - customize for all users at once

One alternative…

Use the *PUBLIC group profile and set policies for all users

- **'Deny' functions for all users in a single step**
- **Then 'Allow' specific users access to functions via their User or Group profiles**

Problem:

You're locked out too, until you go in and "Allow" functions to yourself

Simplify your IT.

Good articles on setting up users

iSeries 400 Experts Journal

– **Sept/Oct 2006, 'iSeries Access for Web: Getting Started'**

– **Nov/Dec 2006, 'Making iSeries Access for Web available to your users: Beyond the Basics'**

– **Mar/Apr 2007, iSeries Access for Web: Additional Tips on rolling 5250 out to users'**

Simplify your IT.

Policies - customize a group of users at once

Another Alternative…

Set up a group profile and add users to that group. Then set policies for that group

- **'Deny' functions for all users in the group in a single step**

Problem:

If you create multiple groups, you need to keep track of what policies were set for who.

Simplify your IT.

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 CMINER1 profile, and set policy to show only the 'CMINER1' directory to this user...

Simplify your IT.

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**

Simplify your IT.

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

Simplify your IT.

How to Configure a 5250 Session and save it

Select to 'Start Sesson'

- **Provide name of System i you wish to connect to → can be any system in the network**

- **Provide how you want Workstation ID handled**

- **Can check to Bypass additional i5/OS sign-on screen**

Once you are connected, click on the 'Active' session link to save this session

Simplify your IT.

How to Configure a 5250 Session and save it (continued)

Click on Active Session link

3

- **Click on 'Edit' icon in Actions column**
- **Can set colors, define keypads, etc.**

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

4

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

Simplify your IT.

How to Configure a 5250 Session and save it (continued)

Click on Configured Sessions

5

- **On 'Inventory System' select the Action Icon to 'Create Shortcut'**
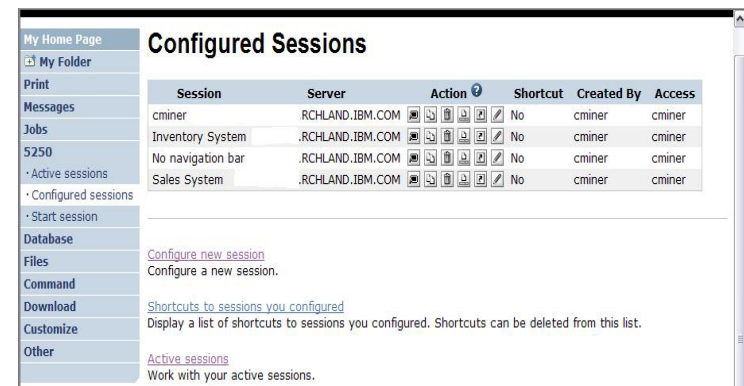
Create Access to you Configured Session

6

- **Add the users, groups of users, or all users (*Profile) whom you want to be able to use this session connection**

Simplify your IT.
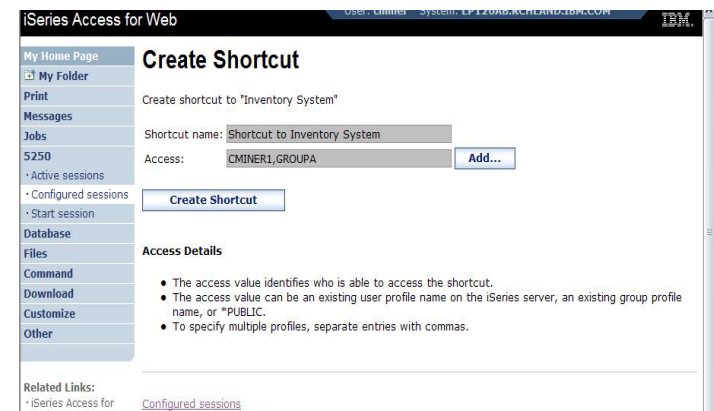
Shortcut to Configured Session (continued)

User CMINER1

- **Does not have a 'Start Session' link**

- **Has only has 'Configured Sessions' link**

- **Has a Shortcut to a Configured Session created by CMINER**

Policies have been set on CMINER1

- **So that the only Action user can take is to start this session. User cannot:**
  - **Copy, Delete, Rename, Create Another Shortcut, Edit**

iSeries Access for Web — User: cminer1 System:

7

My Home Page
Print
5250
· Active sessions
· Configured sessions
Files

Related Links: Active sessions

Configured Sessions

Session	Server	Action	Shortcut	Created By	Access
Shortcut to Inventory System	.RCHLAND.IBM.COM		Yes	cminer	cminer1
Shortcut to Inventory System	.RCHLAND.IBM.COM		Yes	cminer	GROUPA

Simplify your IT.

Creating a Macro to use with 5250

1. **Record the 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**

2. **Edit the 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**

Simplify your IT.

Record and Save Your Macro

Press **Stop Recording** when you've reached point you want users to come in at

1

2
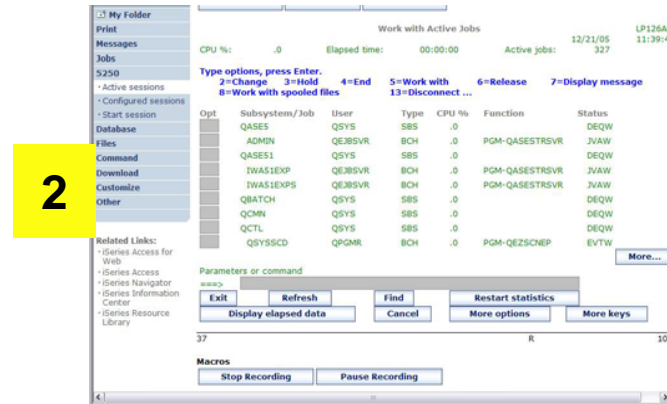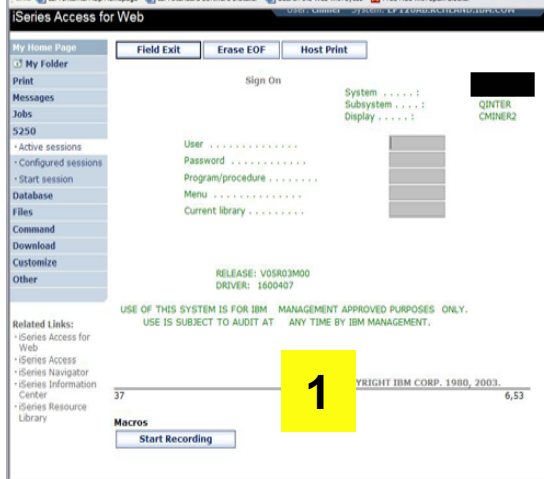
Start at i5/OS sign-on screen and click on Start Recording to create your macro

3

Save Macro

Macro: WRKACTJOB Menu

☑ Replace if already exists

Save Macro   Cancel

Then give the Macro a name

Go to bottom of 5250 screen and select to Edit the macro you just created

4

Simplify your IT.
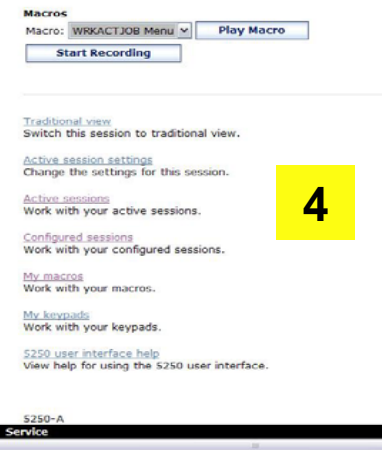
Edit Your Macro and Create A Shortcut for it

5 **Select Action to Edit your macro**
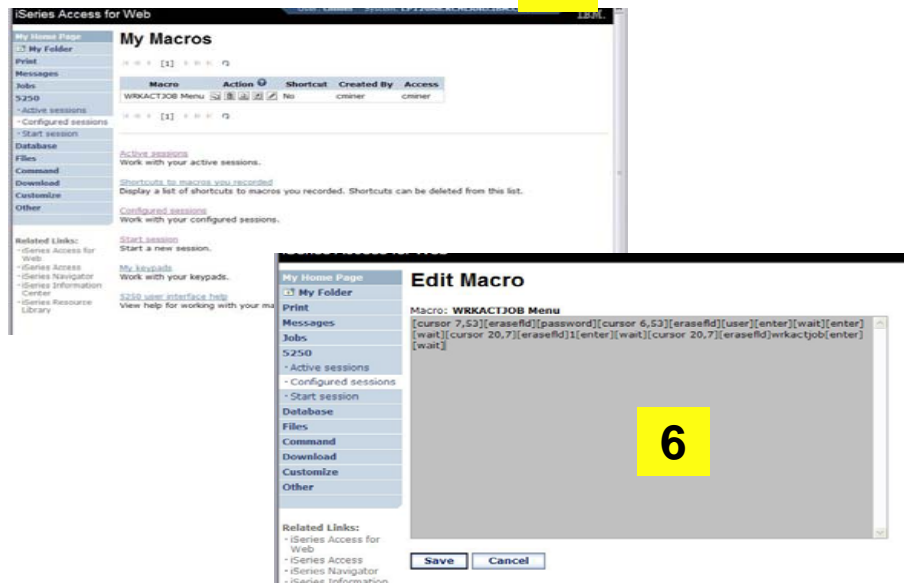
- **Replace your password with [password] and your user id with [user]**
- **Then when this runs, the signed on user id and password will be plugged in**

6

7

- **Go back to My Macro page and section Action to Create Shortcut to your Macros**
- **Add whomever can use this Macro**

Simplify your IT.
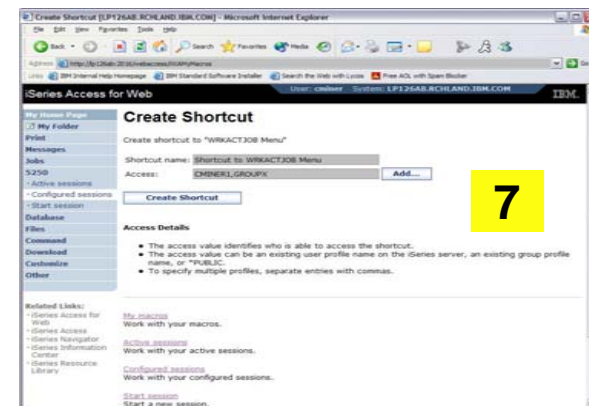
Add Macro Name to a 5250 Session

8

- **Create a new session via the Start Session link**
- **Under the Macro parameter, the pulldown will have your Macro listed**

OR

- **Select one of your Configured Sessions and add the Macro shortcut**

Simplify your IT.

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

Simplify your IT.

iSeries Access for Web – Database Functions

Access database tables on your iSeries server with iSeries Access for Web.

Tables

- View a list of database tables on your iSeries server.
- Perform actions on these tables without having knowledge of SQL and its syntax.
- View the contents of a table in a paged list, using the Quick view action.
- Add and update records in a table using the Insert and Update actions.
- Create your own customized SQL request for a table using the Run SQL action.
- Create your own customized copy data request for a table using the Copy data to table action.

My requests

- View a list of previously saved requests.
- Run or Edit requests from this list.
- Manage lists using the Copy, Delete, and Rename actions
- Create and manage shortcuts to requests

Run SQL

- Run SQL statements dynamically.
- View output as a paged list or in a popular file format, like Microsoft Excel or Lotus 1-2-3. (Output format depends on how you have your browser configured and whether the browser can locate a plug-in for the output type you choose.)
- Customize how data is returned by setting options specific to the output type.
- Build SELECT statements using an SQL Wizard.
- Save requests for repeated use.

Copy data to table

- Copy existing data files from your PC to a database table on your iSeries server.
- These data files can be in many popular file formats, including Microsoft Excel and Lotus 1-2-3.
- Replace the contents of a table or add data to an existing table.
- Create a new database table based on the contents of a workstation file.
- Save requests for repeated use.

Import request

- Import Client Access Data Transfer upload and download requests into iSeries Access for Web copy data and SQL requests.
- Imported requests are automatically converted to iSeries Access for Web format.
- Run and edit converted requests on your iSeries server just like other copy data and SQL requests.

Import query

- Import queries generated by Query for iSeries and DB2 UDB for iSeries Query Manager.
- Imported queries can be saved into iSeries Access for Web database requests.
- Run and edit converted queries on your iSeries server just like iSeries Access for Web SQL requests.

Extract server data

- Extract server object information into a database table.

Simplify your IT.

Upload PC Data to the iSeries

- **Upload data from a variety of file types**
  - **Excel, XML, Lotus, etc**
  - **OpenOffice** new V5R4

- **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**

iSeries Access for Web

| 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 |

Copy Data to Table

File to Copy

File: [   ] [Browse...]

File type: [Comma Separated Value (.csv) ▼] [Settings]

Table to Receive Data

Table: [   ]

Action: [Replace data if table exists ▼]

Connection

Connection: [IBM Toolbox for Java - LP126AB.RCHLAND.IBM.COM ▼]

[Copy Data to Table]   [Save Request...]

Simplify your IT.

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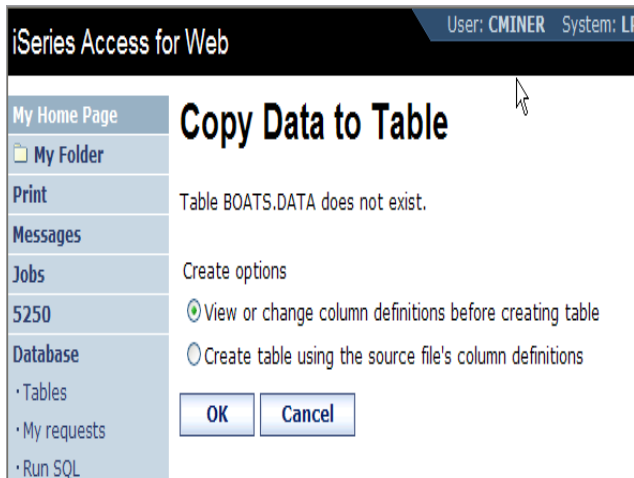
Wizard to help you create an iSeries table from your PC spreadsheet

Simplify your IT.
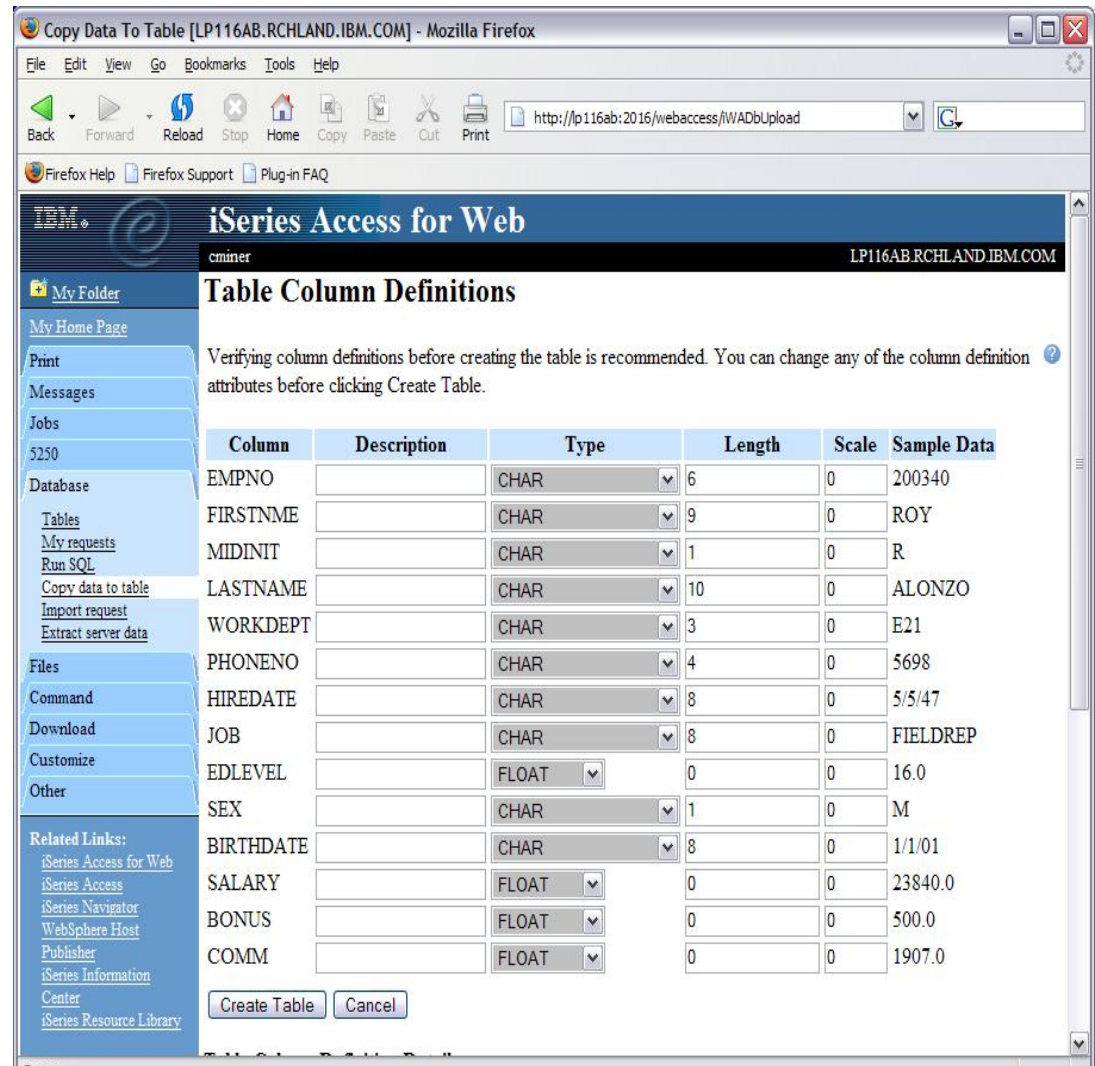
Database Tables

Can:

- **Insert**
- **Update**
- **Quick View**
- **Find (new V5R4!)**
- **Run SQL**
- **Copy Data to Table**

Simplify your IT.

Download Database Information from iSeries

Run SQL allows you to 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**
- **IFS (new V5R4)**

Can save request
- **My Requests, Give Shortcut to others**

SQL Wizard if you don't know SQL

iSeries Access for Web

Run SQL

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

SQL Statement

```
SELECT
    "BCOST", "BYEAR", "BTYPE", "BNAME", "BFEET", "BNT01"
FROM
    BOATS.BOATS
WHERE
    (  ("BCOST" > 10000)  )
```

SQL Wizard

SQL Output
Type: Microsoft Excel XML (.xml)   Settings
Destination: Mail as attachment   Settings

Format
Date: 12/23/05
Time: 10:16:44 AM

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

Run SQL   Save Request...

Simplify your IT.

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**

Simplify your IT.

Database - Run Requests

Administrator could:

- **Give users or groups of users some database requests that were created for them.**

- **Users can run only these specific requests**

- **No other database options offered**

Simplify your IT.

Dynamic Queries – V5R3

SQL Wizard enables you to generate an SQL statement with markers for conditional values

1. **End user selects query to run**
2. **End user selects Boat Type and Price Range**
3. **Boats are displayed that fit that range**

BCOST	BYEAR	BTYPE	BNAME	BFEET	BNT01
27500	1953	S	Bill Garden Schooner	36	-The hull is 1/8' caravel cedar planked atop 1 1/4" x 1 1/2" oak frames
57900	1990	S	Hunter 33.5	33	-The boat has a large wheel steering a spade rudder.
63000	1979	S	Mariner Ketch	40	-Full keel and the rudder is keel hung
69000	1978	S	Morgan 382 Race/Cruise Sloop	38	-Has an Airex hull and skeg rudder. Has been rated by LLoyd's
69950	1994	S	Corsair 27	27	-Equipped for cruising and racing
80000	1974	S	Garden Design Porpoise Ketch	51	-The hull is carvel planked teak.

iSeries Access for Web

Find Boat

Select Boat Type

S

Price in US$ greater than or equal to: 25000

Price in US$ less than or equal to: 100000

OK   Cancel

iSeries Access for Web

My Requests

Simplify your IT.

Printing

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

Simplify your IT.

Work with Printer Output, Printers, Queues

Typical end user printer tasks

- **Printer Output**
- **PDF Printer Output**

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

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

Simplify your IT.
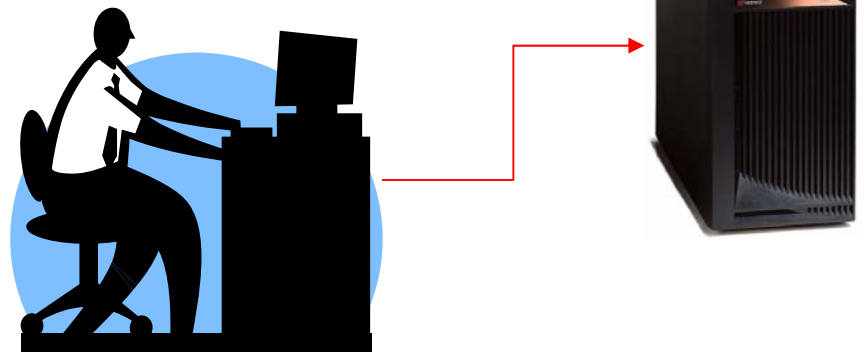
Work with Printer Output

http://<myiseries>/webaccess/iWASpool

My 'printer output'

Actions include:
- **Work with**
- **View**
- **View As**
- **View PDF**

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**

Simplify your IT.

PDF Printer Output

http://<myiseries>/webaccess/iWAPDFPrinterOutput

Printer output automatically converted to PDF and placed in PDF Printer Output Queue

Actions include:

– **View**

– **Copy to File**

– **Copy to Folder; Delete**

– **Mail**

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

Actual host application could additionally send spoolfile printer output to another output queue (in SCS or AFP mode)

Simplify your IT.

My Folder

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

Simplify your IT.
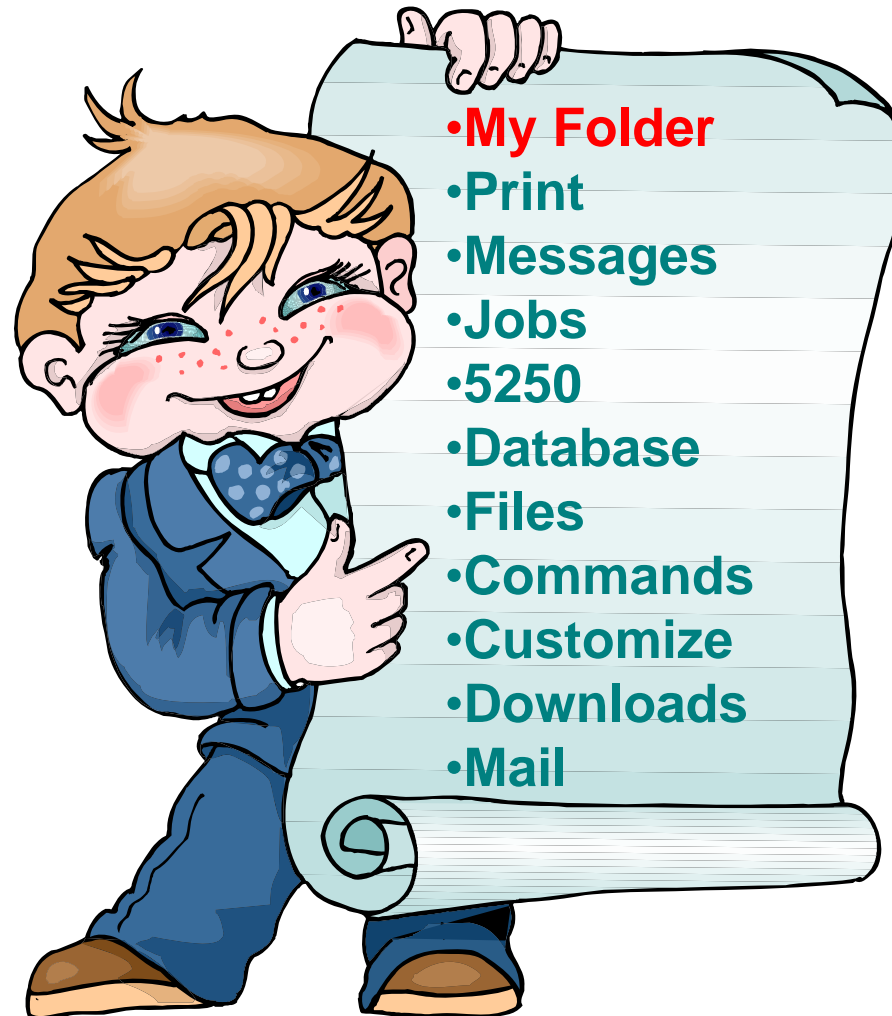
My Folder

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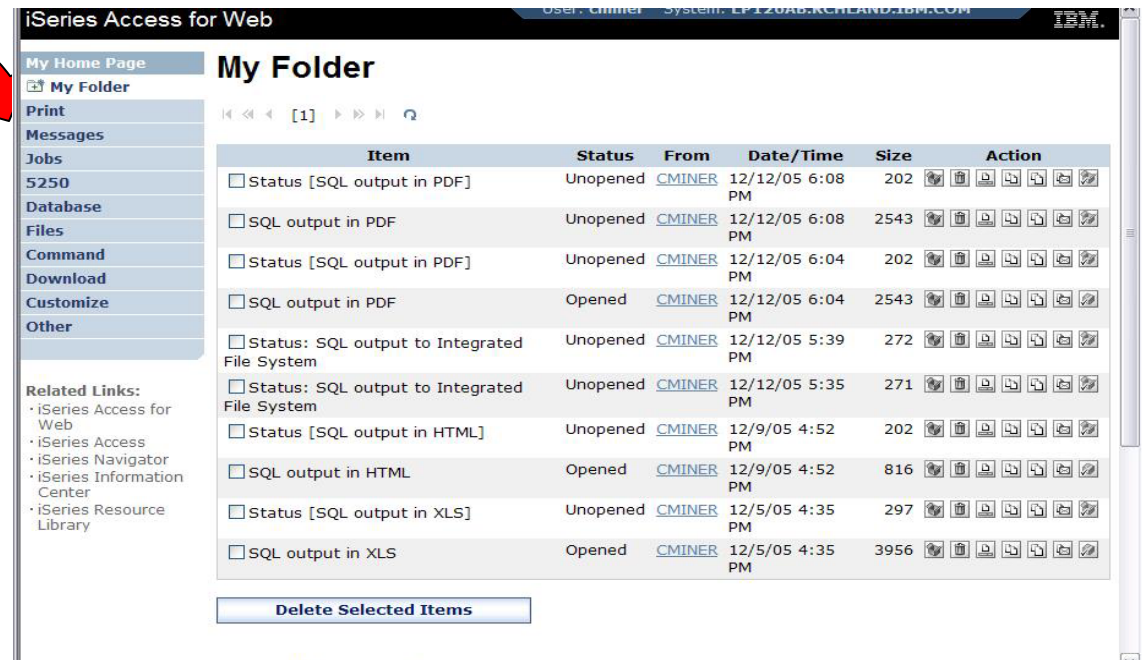
Combine email and My Folder functions to:
- Perform requests for someone else
- Distribute results to a group of users
- Send email to others when you place information in their Folder
- Be notified when new items are placed in your Folder

Simplify your IT.

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**

Simplify your IT.

Commands

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

Simplify your IT.

Run iSeries CL Commands

1 *Search* for Command

2 Then *Run Command*

Simplify your IT.

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

Simplify your IT.

- **My Folder**
- **Printers**
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Simplify your IT.

Jobs / Server Jobs for end user

iSeries Access for Web — User: **cminer** System: LP126AB.RCHLAN

My Home Page
My Folder
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Messages
Jobs
· Jobs
· Server jobs
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Other

Jobs for cminer

[1]

Job	Status	Type	Entered System	Action
CMINER2	Suspended	Interactive	12/21/05 11:38:41 AM	
CMINER3	Suspended	Interactive	12/21/05 12:51:09 PM	
CMINER4	Suspended	Interactive	12/21/05 12:52:14 PM	
CMINER5	Suspended	Interactive	12/21/05 12:55:01 PM	
CMINER6	Suspended	Interactive	12/21/05 1:39:01 PM	

[1]

Jobs preferences
Customize job list preferences
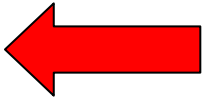
- **Actions Include**
- **Hold Job**
- **Delete/End Job**
- **View Job Log**
- **Printer Output**
- **View Job Log Properties**

- **Actions Include**
- **Hold Job**
- **Delete/End Job**
- **View Job Log**
- **View Job Properties**

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

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Server Jobs for cminer

[1]

Job	Detailed Status	Server	Action	Run Priority	Thread Count
QNPSERVS	Waiting for time interval	Network Print Server		20	1
QZRCSRVS	Waiting for time interval	Remote Command Server		20	1
QZRCSRVS	Waiting for time interval	Remote Command Server		20	1
QZRCSRVS	Running	Remote Command Server		20	1
QZSCSRVS	Waiting for time interval	Central Server		20	1
QZSCSRVS	Waiting for time interval	Central Server		20	1

[1]

Related Links:
· iSeries Access for Web

Simplify your IT.

Messages

- **Display Messages**
- **Send Message**
- **Send Break Message**
- **Operator Messages**
- **Message Queues**

Simplify your IT.

Send Message / Send Break Message

Send Messages

– **Goes to user's 'Display Messages' queue**

Send Break Message

– **Generates an instant message to Sametime users**

– **Sends a Break Message to workstation users** (not iSeries Access for Web 5250 users → goes into QSYS/CMINER message queue)

Add Button

– **Retrieves list of workstation and Sametime users on the server**

Simplify your IT.

Downloads **(New in V5R3)**

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

Simplify your IT.
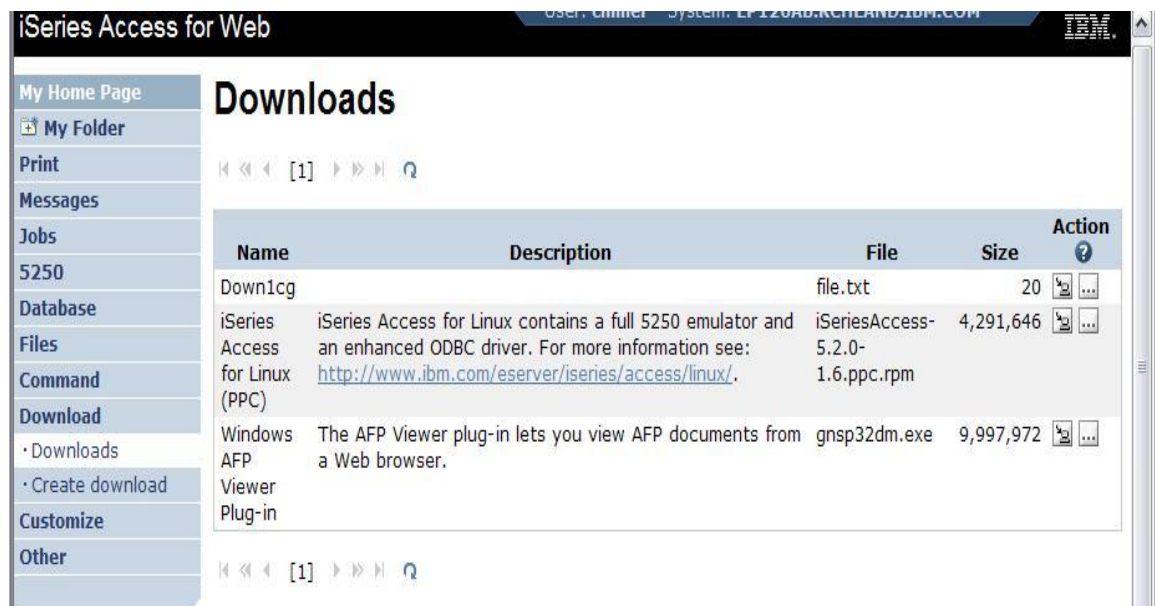
Downloads – for file/program distribution

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**

Simplify your IT.

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**

Simplify your IT.

Create Tailored Install Image of ODBC driver
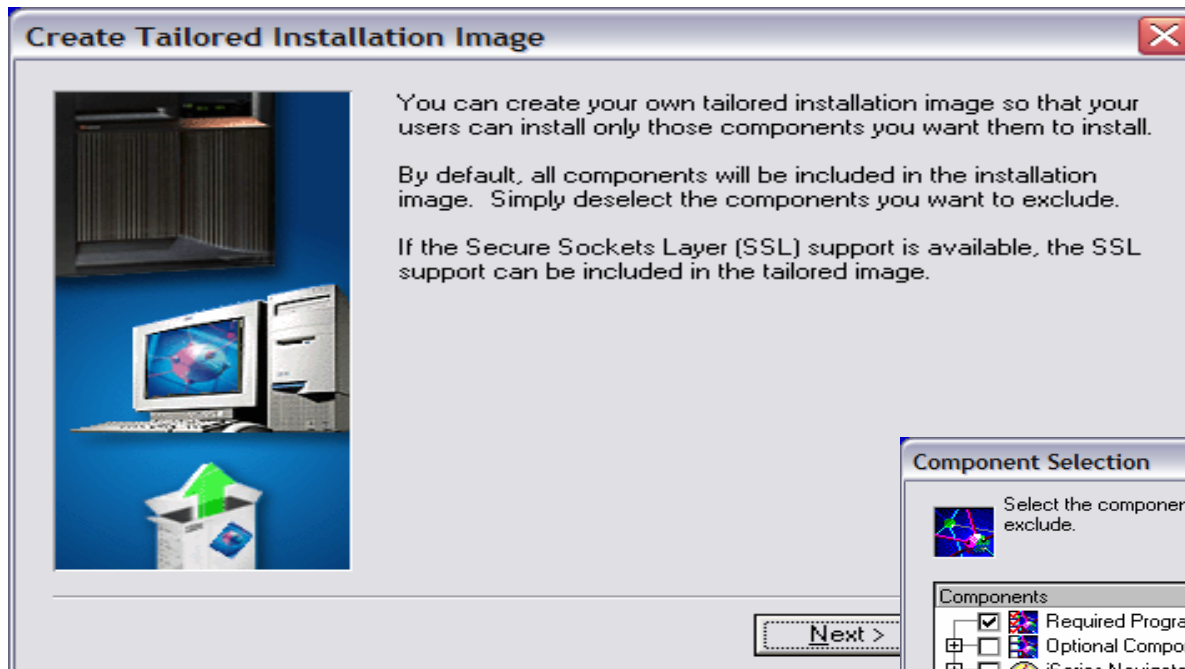
Use iSeries Access for Windows Tailored Install wizard to capture only the Windows ODBC driver
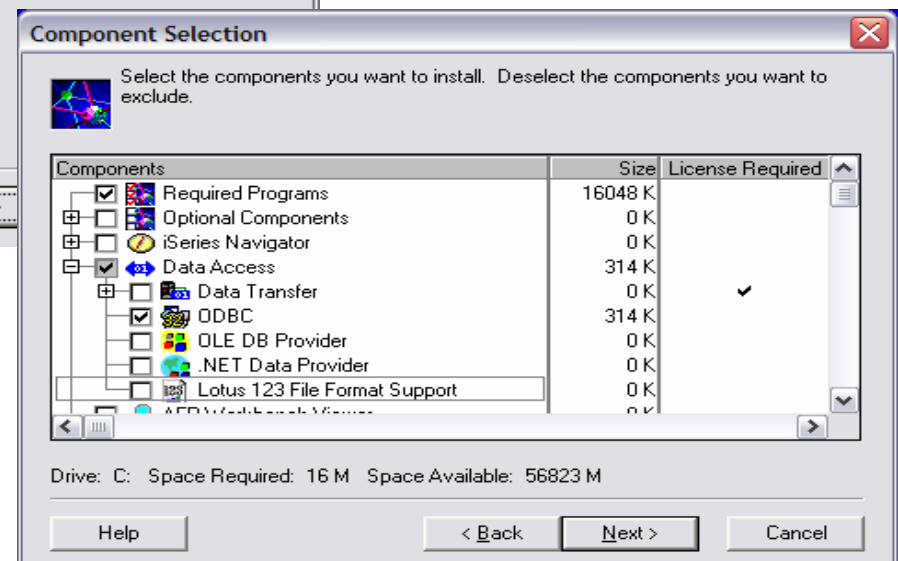
– **Run CWBINIMG.BAT**

  • **This program is in :\\<myiseries>\qibm\ProdData \CA400\Express\Install\Image**

– **Then zip up the directory that gets created**

Simplify your IT.
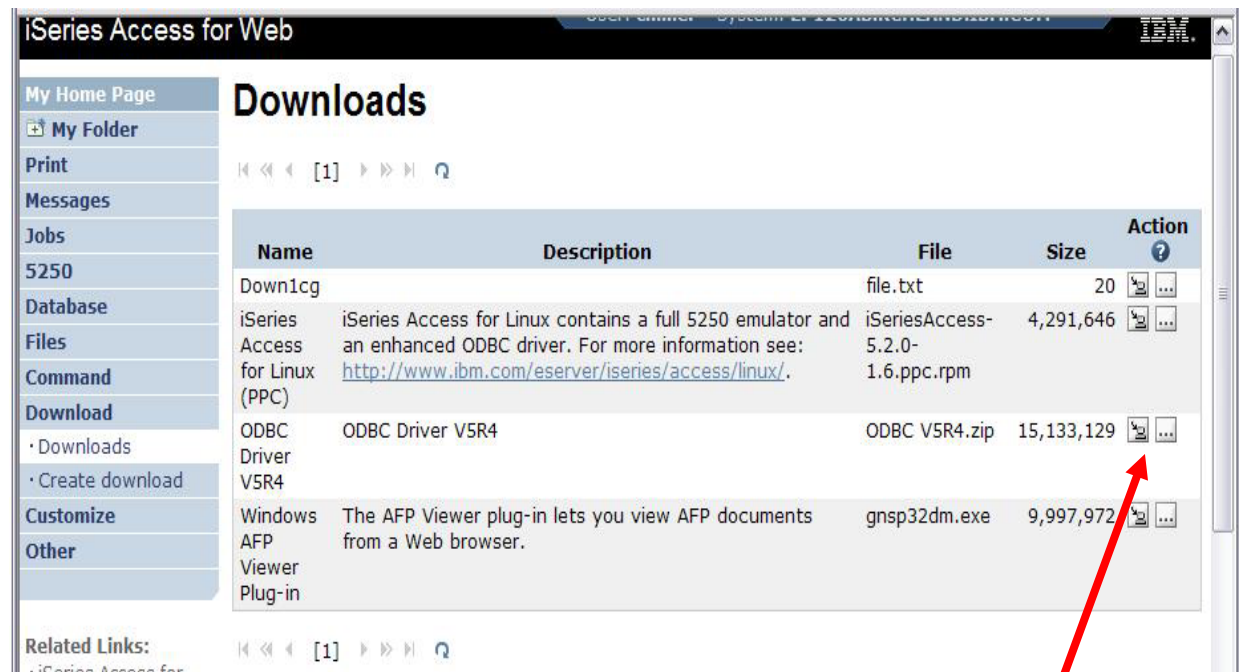
Use the 'Create Download' feature

- **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.**

Simplify your IT.

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**

Simplify your IT.

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.**

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Work With Download

Name:	ODBC Driver V5R4
Description:	ODBC Driver V5R4
File:	ODBC V5R4.zip
Size:	15,133,129
Last updated:	12/22/05 3:59:43 PM

Action

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

Simplify your IT.

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**

Simplify your IT.

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 it is just a ZIP file, so user would have to unzip and go into directory and start the install by pressing on SETUP.EXE**

Simplify your IT.

Summary

Simplify your IT.
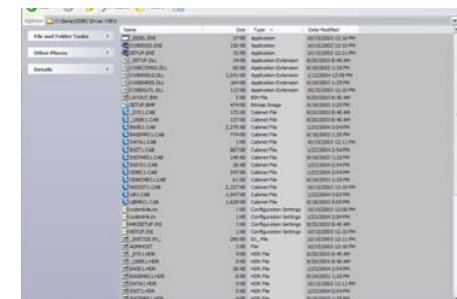
V5R4 iSeries Access for Web Enhancements

Both Servlets and Portlets	Servlets	Portlets
Authentication • **Support Single sign-on (SSO) using WAS security model (EIM, LDAP)** • **5250 Bypass i5/OS sign-on screen** **Database** • **Support for OpenOffice Spreadsheet format (.ods)** **5250** • **Support DDS HTML keywords** • **Display HTTP/HTTPS URL strings as links**	**Database** • **Import/run DB2 Query Manager and IBM Query for iSeries queries** • **A new output destination of IFS for SQL requests** • **New option of 'Find' on Tables link** **Administration** • **Can transfer configuration items between i5/OS user profiles** • **Can use WebSphere data source names for database connections** **Files** • **Browse File Share link added**	**Database** • **iSeries SQL Requests added** • **iSeries SQL Results Viewer added** **Files** • **Zip function added** **iSeries Credentials** • **Can change i5/OS password via Access for Web**

Simplify your IT.

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 reason to get your iSeries into the web world

Simplify your IT.

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	iSeries	

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