IBM System i™

Session: **22CC/23CC**

Get to the Web Fast
with
System i Access for Web

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i want stress-free IT.
  i want control.
    i want an i.

System i Access for Web Sessions/LABs

22CC	**409136**	**Get to the Web Fast with System i Access for Web**
25LA	520027	LAB: Getting Started with System i Access for Web
32MI	409160	Database Access with System i Access for Web
33MI	500121	System i Access for Web – Security Considerations
35MI	410068	System i Access for Web – Setup and Configuration
36MF	440281	Run 5250 through a Browser using System i Access for Web
41LA	450047	LAB: System i Access for Web: Installation and Configuration
42LA	450047	LAB: System i Access for Web: Installation and Configuration
44MN	420016	Build a Home Page to i5/OS using System i Access for Web
45MN	420015	Tips and Techniques for System i Access for Web
53LA	420063	LAB: Test Drive System i Access for Web
55MM	470021	System i Access for Web runs in a Portal
56MM	480144	Programming with System i Access for Web

Voted "Best Traditional Lab" at Spring and Fall 2005 COMMON

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Requirements?

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

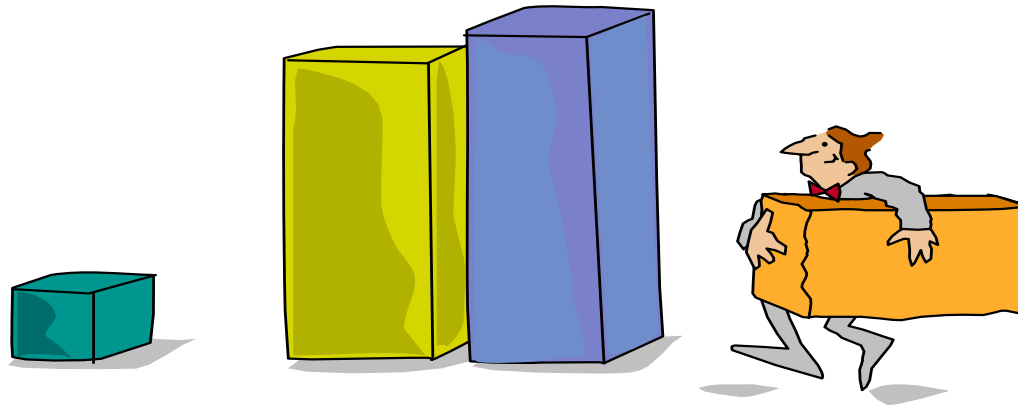**Please submit requests for enhancements via the FITS system.**

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 Family	~~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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iSeries Access and System i Express

- **Each i5/OS user on System i is entitled to use any client in the iSeries Access Family at no additional charge**

- **With iSeries Access, users can:**

  – Access traditional i5/OS applications using the 5250 emulation function

  – Query and retrieve DB2 information through easy-to-use GUIs

  – Upload spreadsheet information into DB2

  – Use i5/OS as a file server

  – Access i5/OS printer output, convert it to .PDF, and print it on PC printers

- **iSeries Access Family (5722-XW1) unlimited user feature included with 515 and 525 systems**

See Announcement Letter No's 107-181 and 107-182 dated 4/10/07 for more details

Table of Contents

- ## What is Access for Web?

- ## Getting Started

- ## Ways to roll out to end users

- ## Control Access to functions

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What is System i 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 System i 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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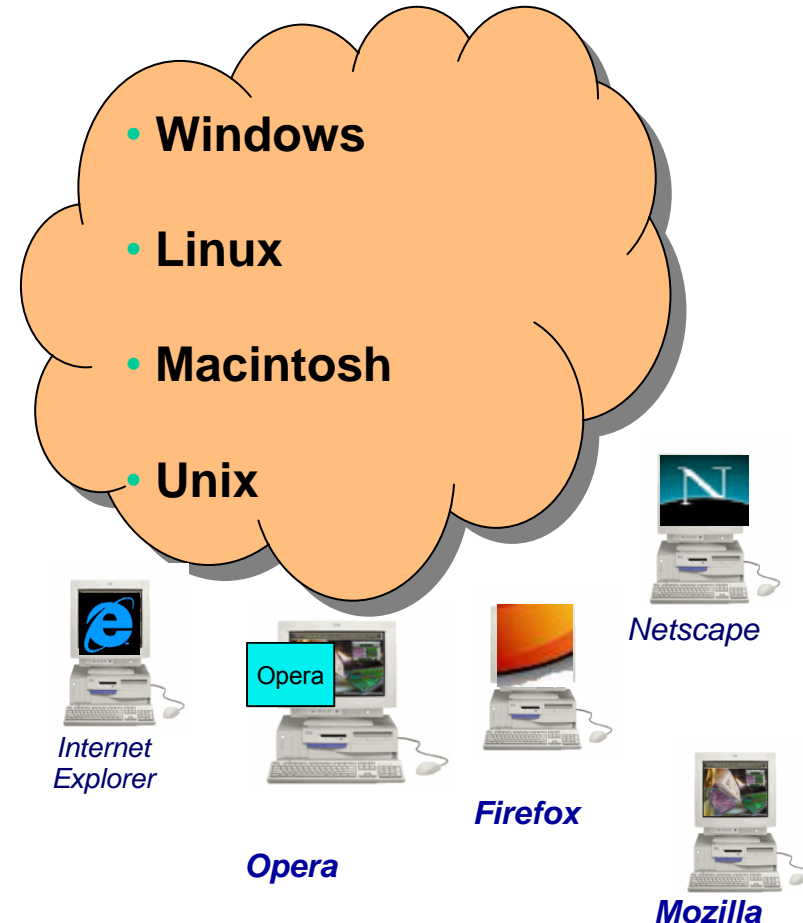
Fully Integrated with your Browser

- **Use any code page available in your browser**
  - **System i 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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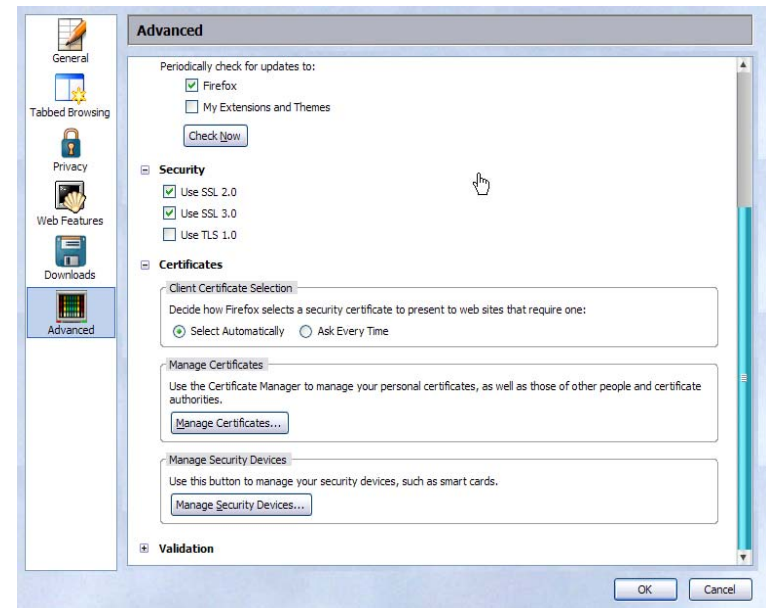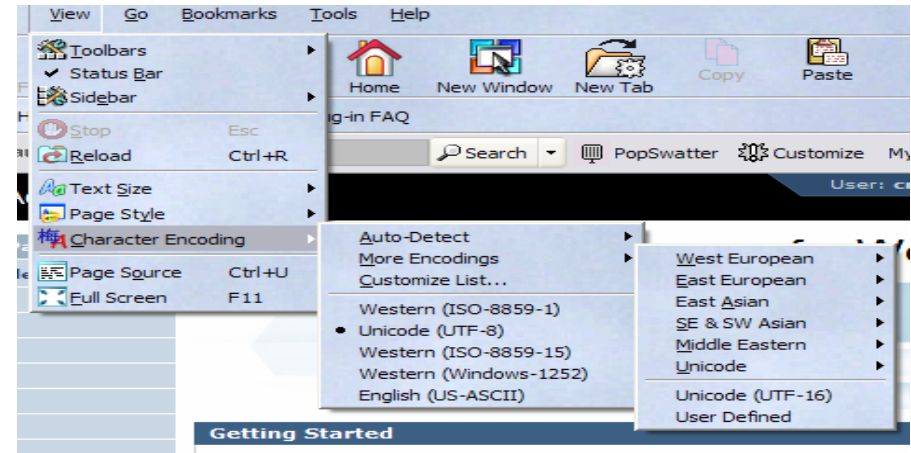
Functions you can perform with System i Access for Web 5722-XH2, V5R4

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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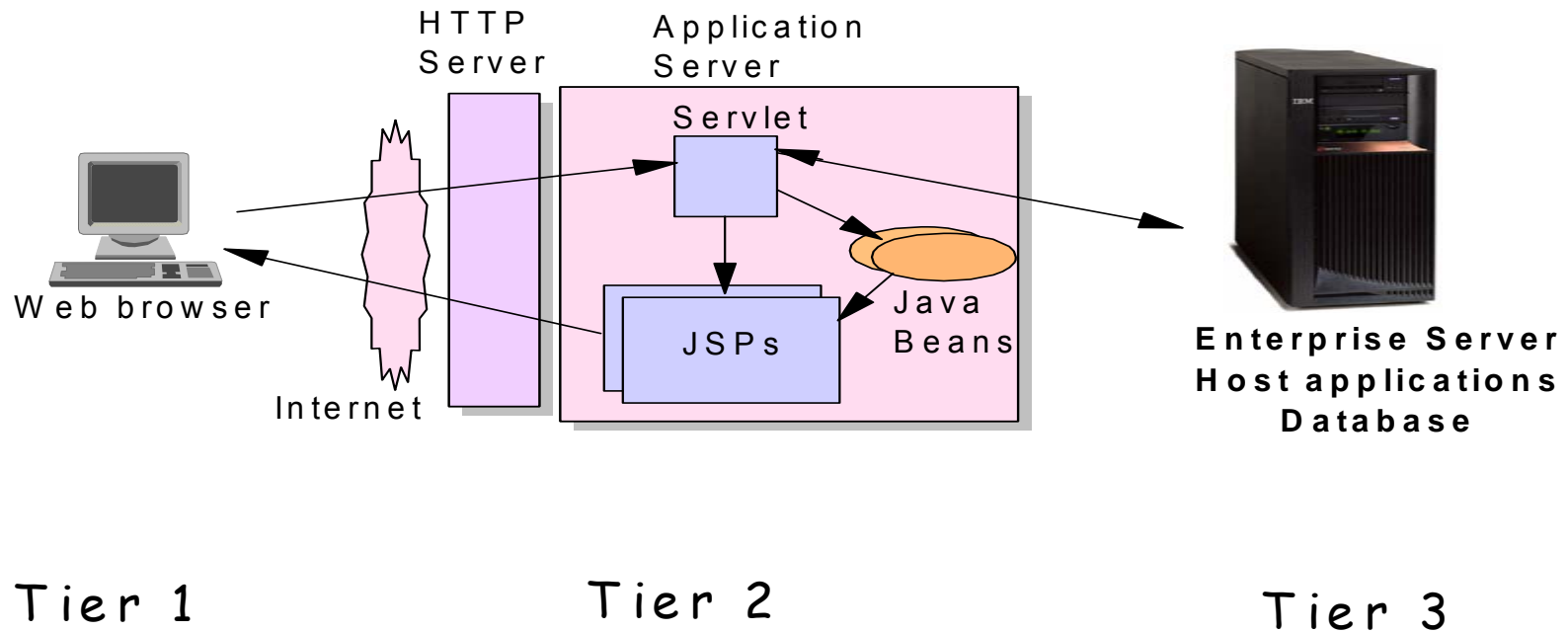
Supported Web Application Servers

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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Is your AS/400, iSeries, or System i 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

Firewall

Firewall

Systems users actually accessing

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

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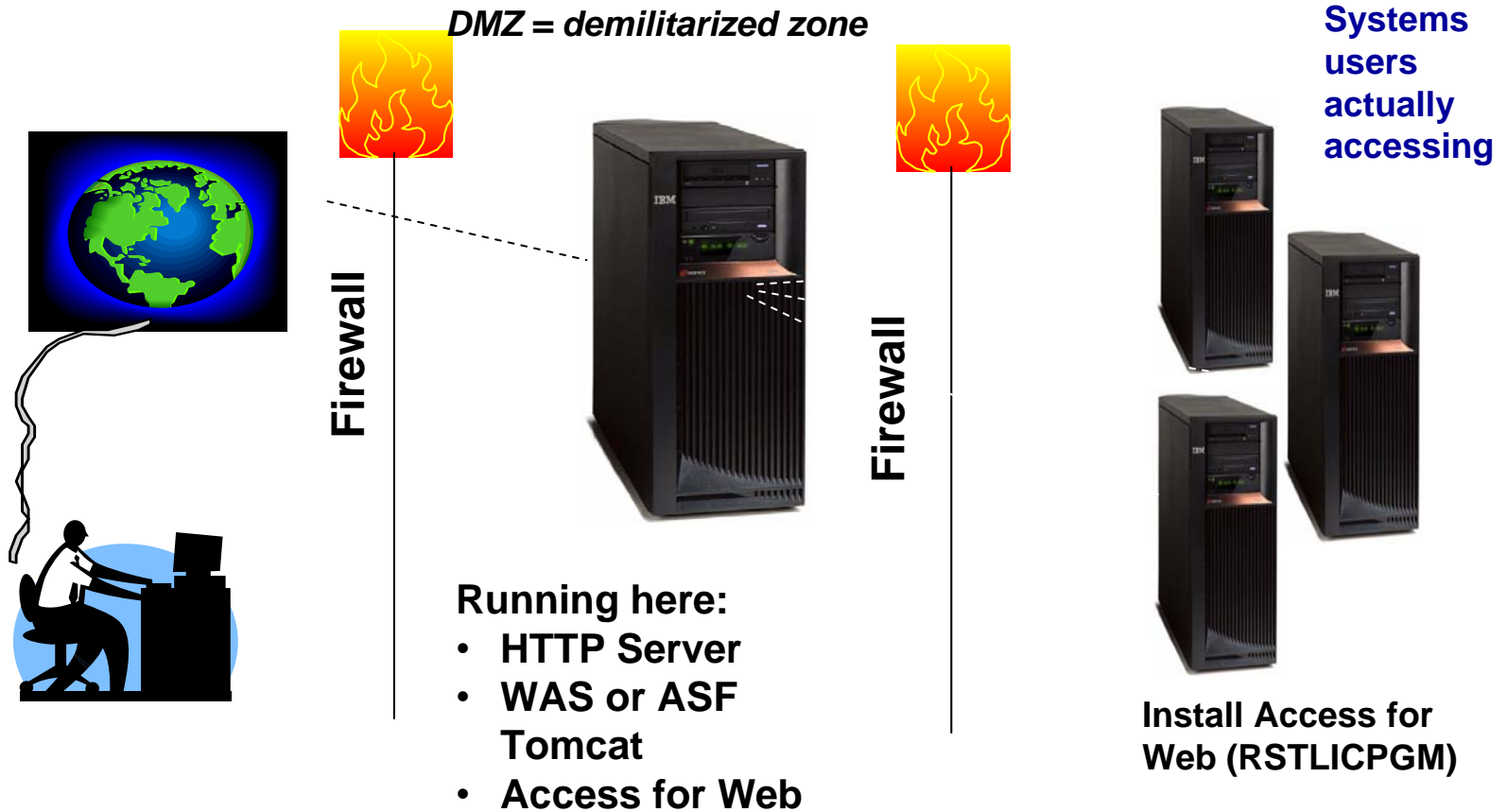
Only need to set up 1 web application server

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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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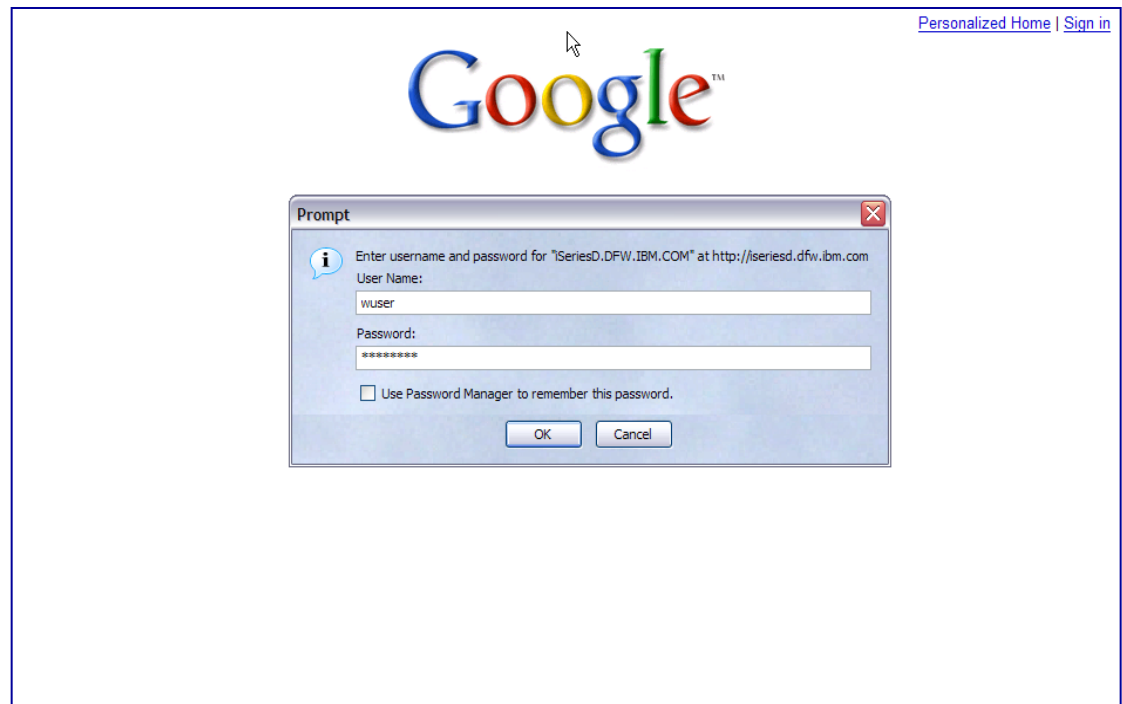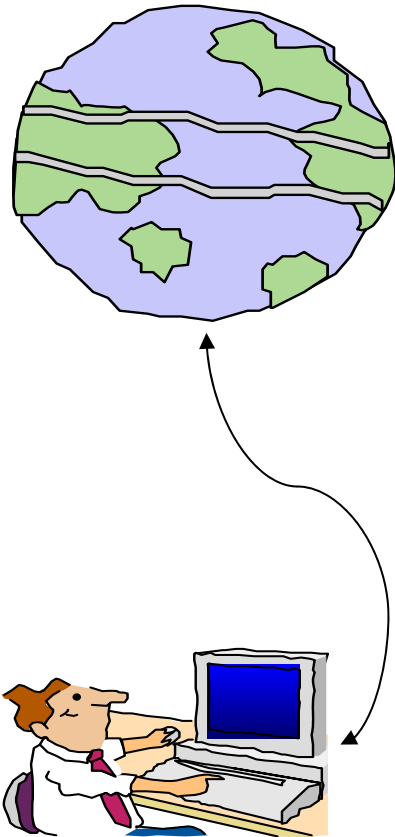
Different Ways to Roll Out Access for Web

- **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

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Different Ways to Roll Out System i 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 System i Access for Web**

- Use the WebSphere Portal solution

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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

i want an i.

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**

i want an i.
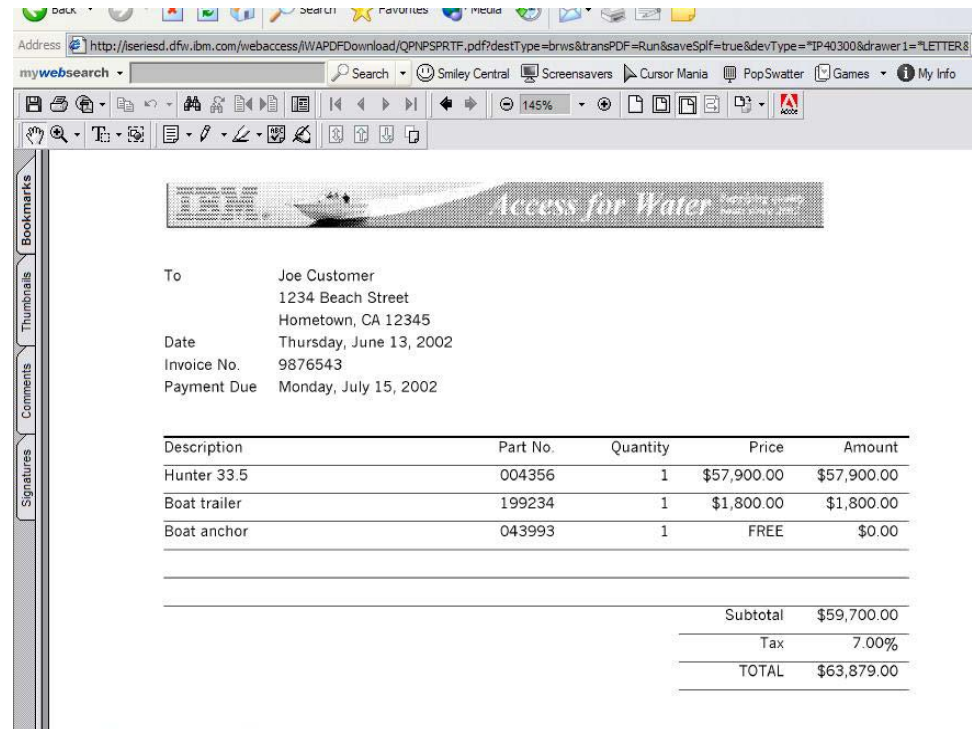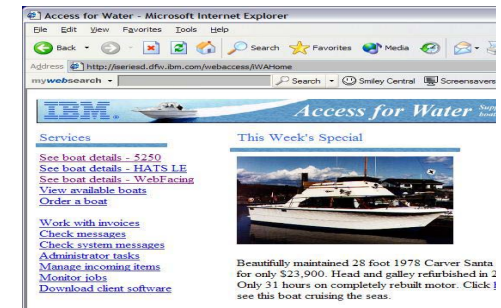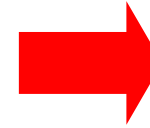
email PDF output

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 a System i Database Query

Clicked on 'View our selection of modestly priced boats'

- **Administrator had previously built an SQL Query using the System i 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**

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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**

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 System i, 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
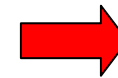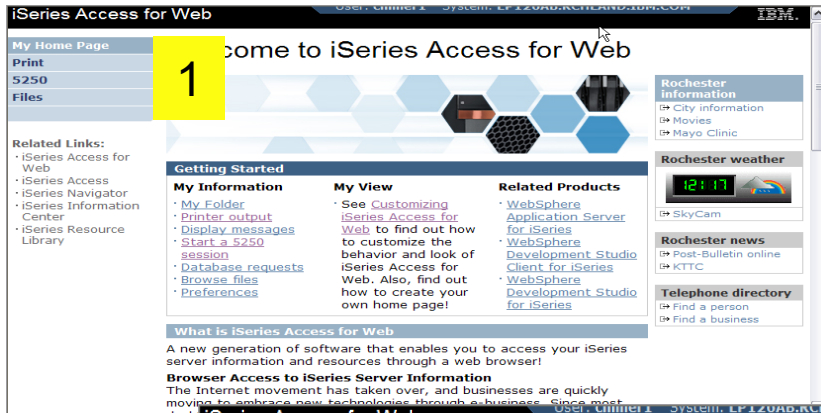
Reduce tabs that get displayed
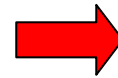
Reduce options under tabs

i want an i.
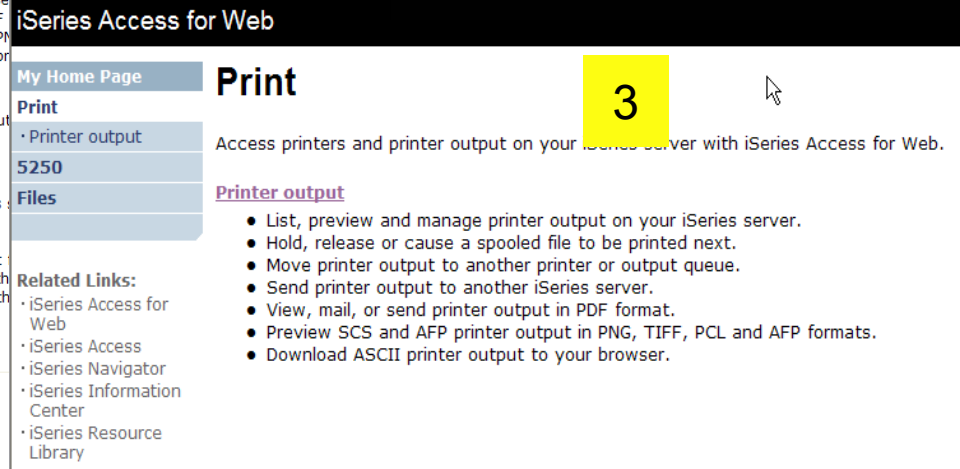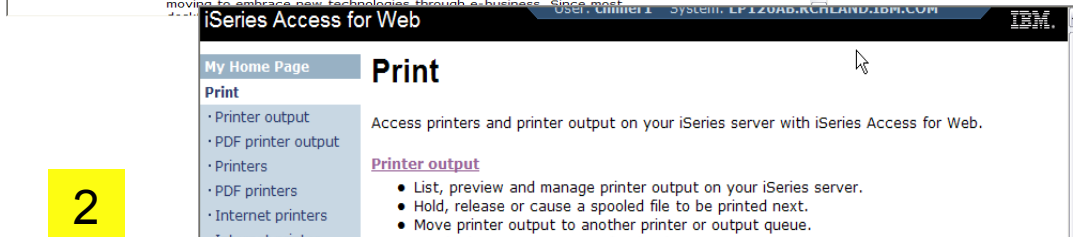
Printer Output - Spoolfile

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 System i**

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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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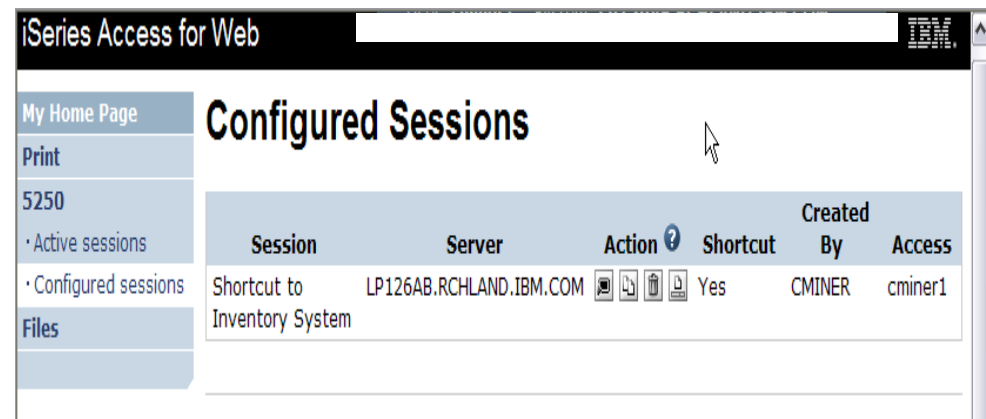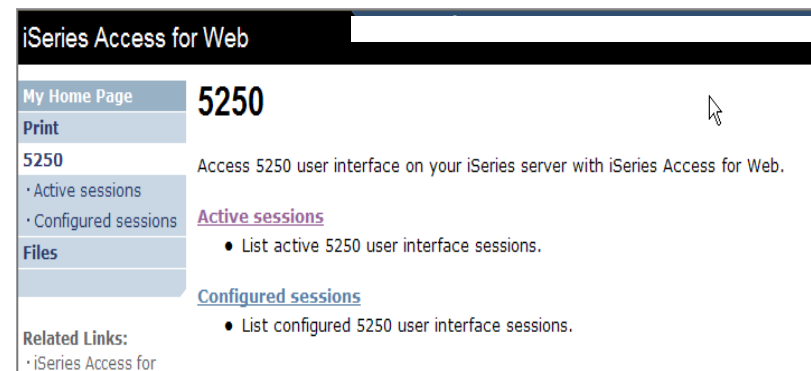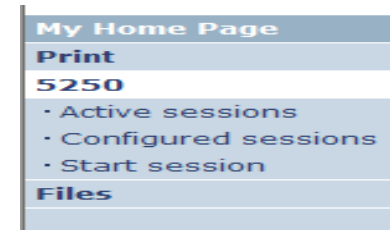
User can run 5250 application

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 System i**
  - **Or on a menu screen**

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

i want an i.
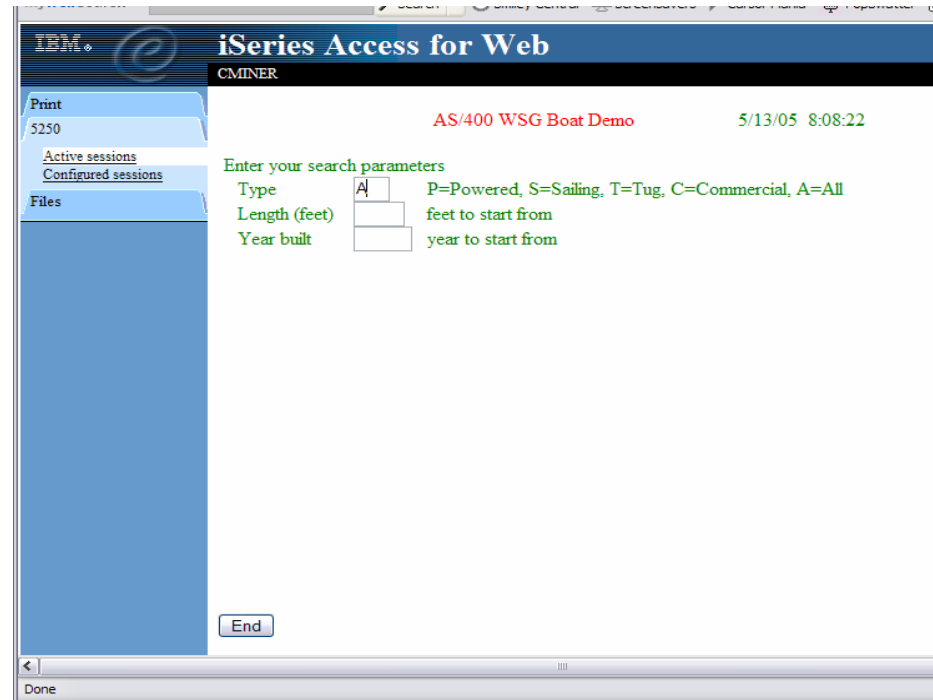
Change look of 5250 session

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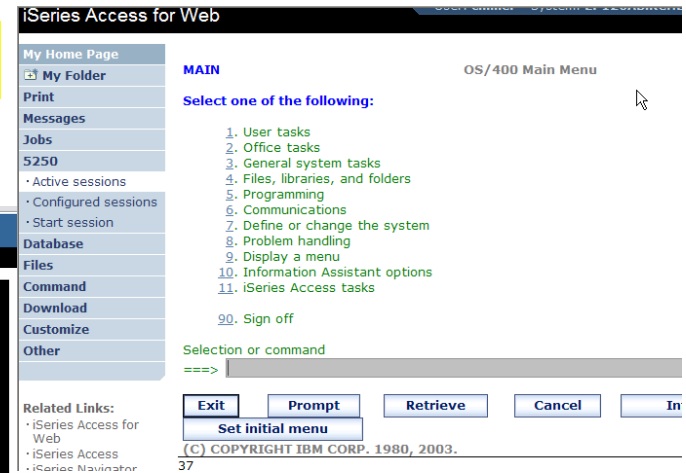
2. **Changed colors, added keypad at side, changed buttons at bottom to words**

3. **Removed navigation bar, put keypad on top**

4. **Selected 'traditional' view, removed navigation bar**

i want an i.
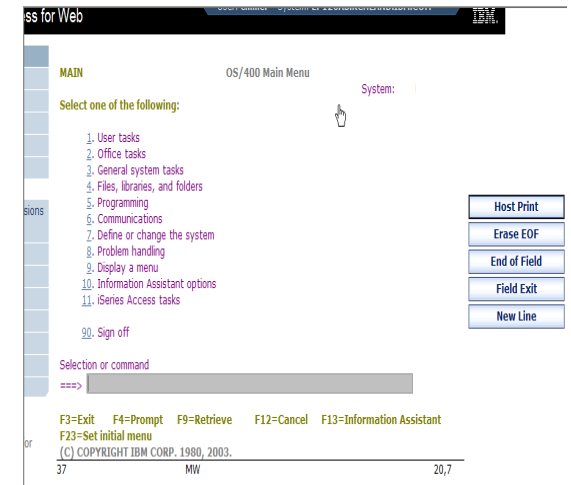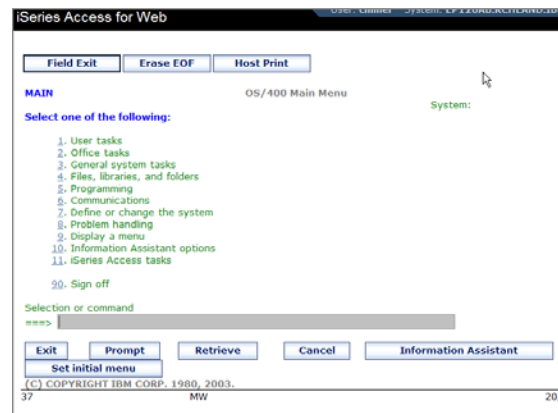
Work with Files in the IFS

- **Navigate and browse the directories located on your System i server integrated file system**
    - **Don't need to map drives**
    - **Don't need to know directory structures**
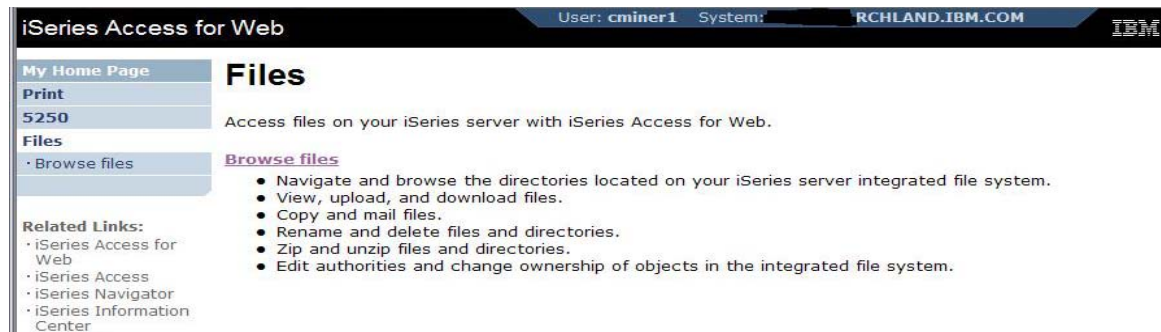
- **View, upload, and download files**

- **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**

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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)**

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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**

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

i want an i.

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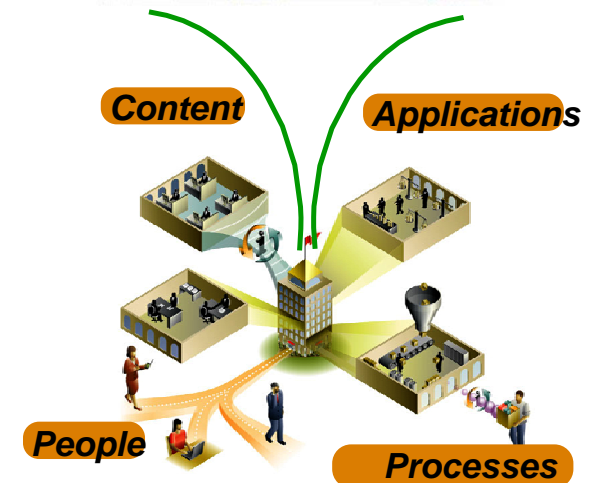
Note: Depending on the System i, you may also be entitled to services and education vouchers.

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Portal with System i – 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

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Portal built for IBM Employees

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Portal built on i5/OS

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System i Access for Web Portlets on System i Portal

Portlet Support added to System i 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**

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System i Access Portlet Views – V5R4

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- **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

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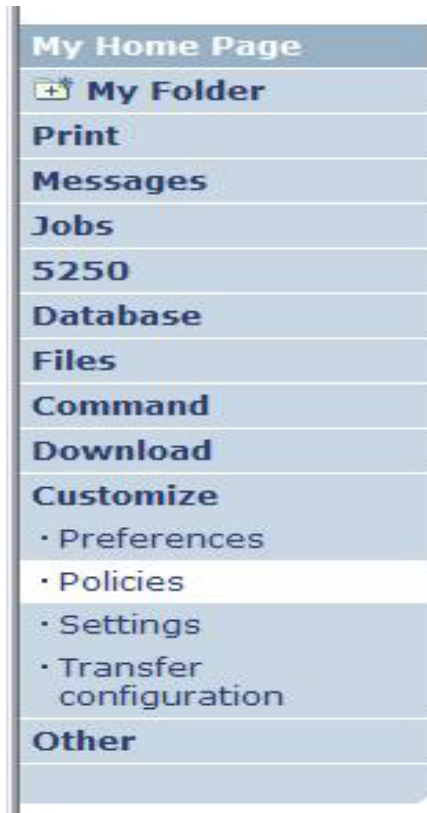
1. **How do I keep my users from using all these functions?**

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

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Access for Web uses OS/400 User Profiles

When a System i Access for Web user attempts to access any function on a System i, 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 System i 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 System i 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**

Customize → Policies

Policies are used to control access to System i 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

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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

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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'**

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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.

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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...

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

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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

1

2

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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'**

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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'**
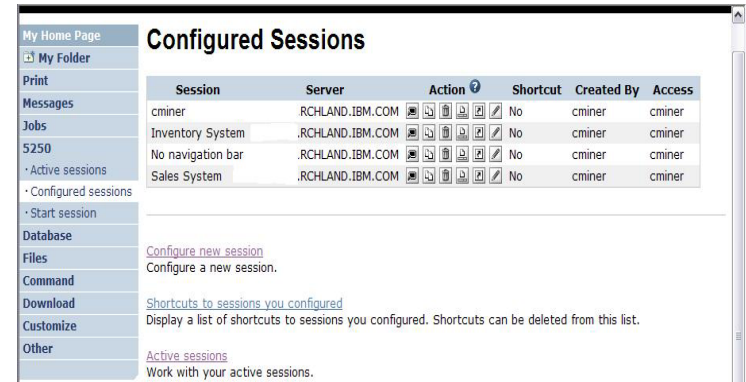
Give access to your Configured Session via Shortcuts

`6`

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

i want an i.
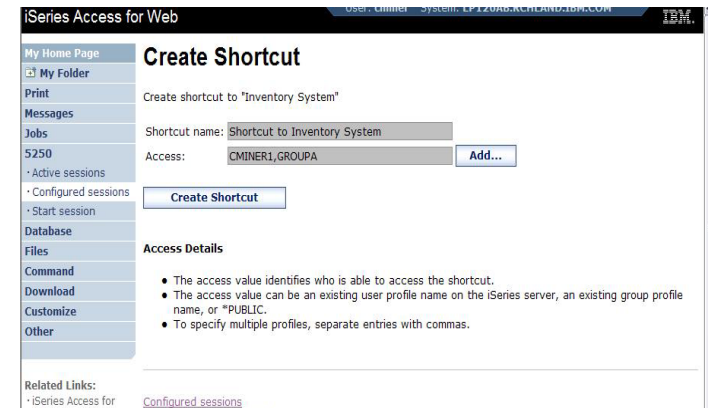
Shortcut to Configured Session (continued)

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**

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Record and Save Your Macro

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

2

1
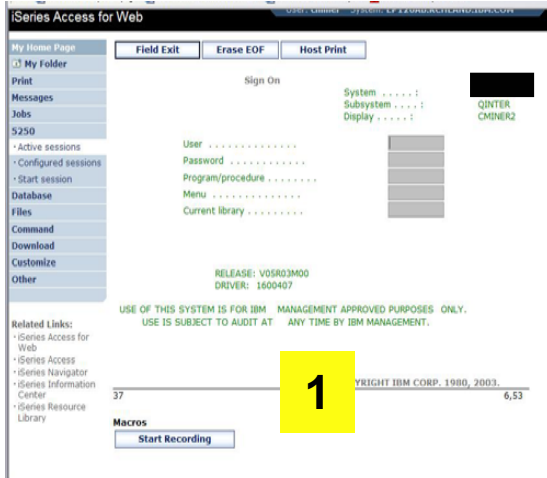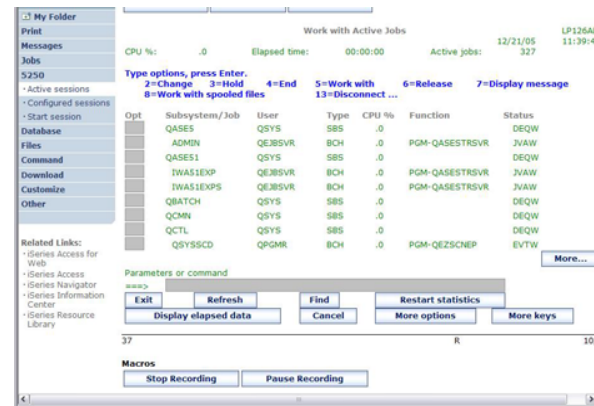
Start at i5/OS sign-on screen and click on **Start Recording** to create your macro

3

Then give the Macro a name

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

4

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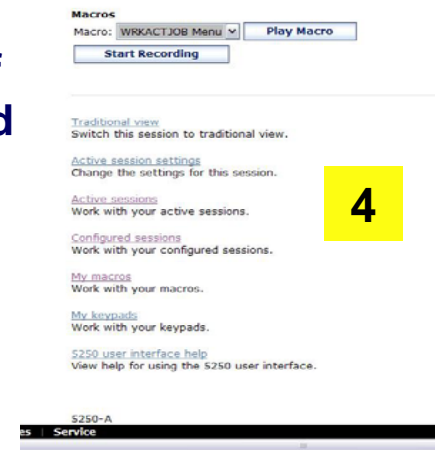
Edit Your Macro and Create A Shortcut for it

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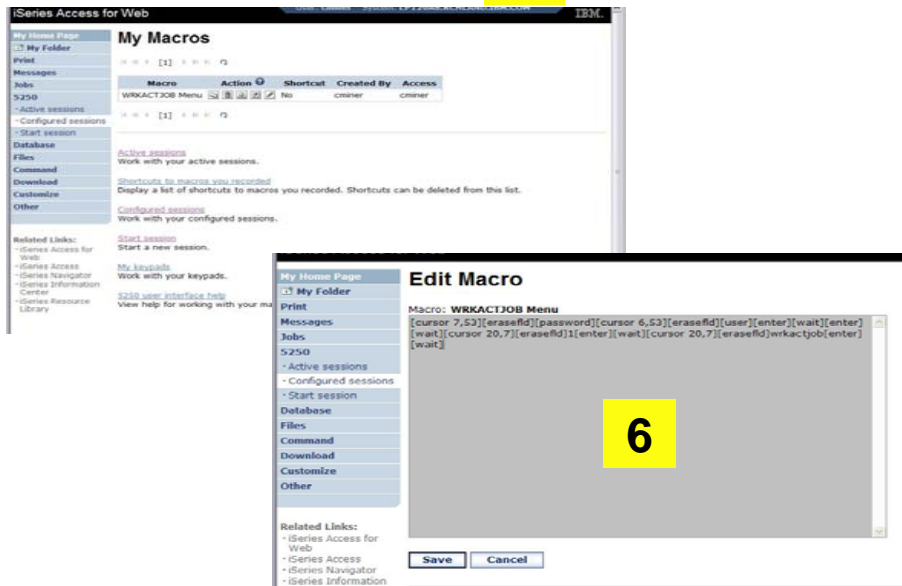
- **Replace your password with [password] and your user id with [user]**
- **Then when this runs, the signed on user id and password will be plugged in**

6
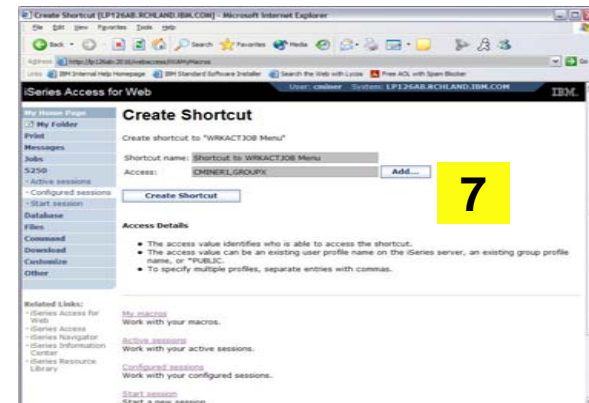
7

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

i want an i.

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**

i want an i.

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

i want an i.

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.

i want an i.

Upload PC Data to DB2 for i5/OS database

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

- **Put into i5/OS database**
  - **'Replace' contents of table**
  - **'Append' to existing data**

- **If no table exists on System i, you will get a wizard to help you create a new table**

iSeries Access for Web

Copy Data to Table

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

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...]

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Create Table in DB2 for i5/OS

Wizard to help you create a table in the System i database from your PC spreadsheet

Database Tables

Can:

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

i want an i.

Download Database Information from System i

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

i want an i.

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**

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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**

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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**

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Printing

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

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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**

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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**

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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)

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My Folder

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

i want an i.
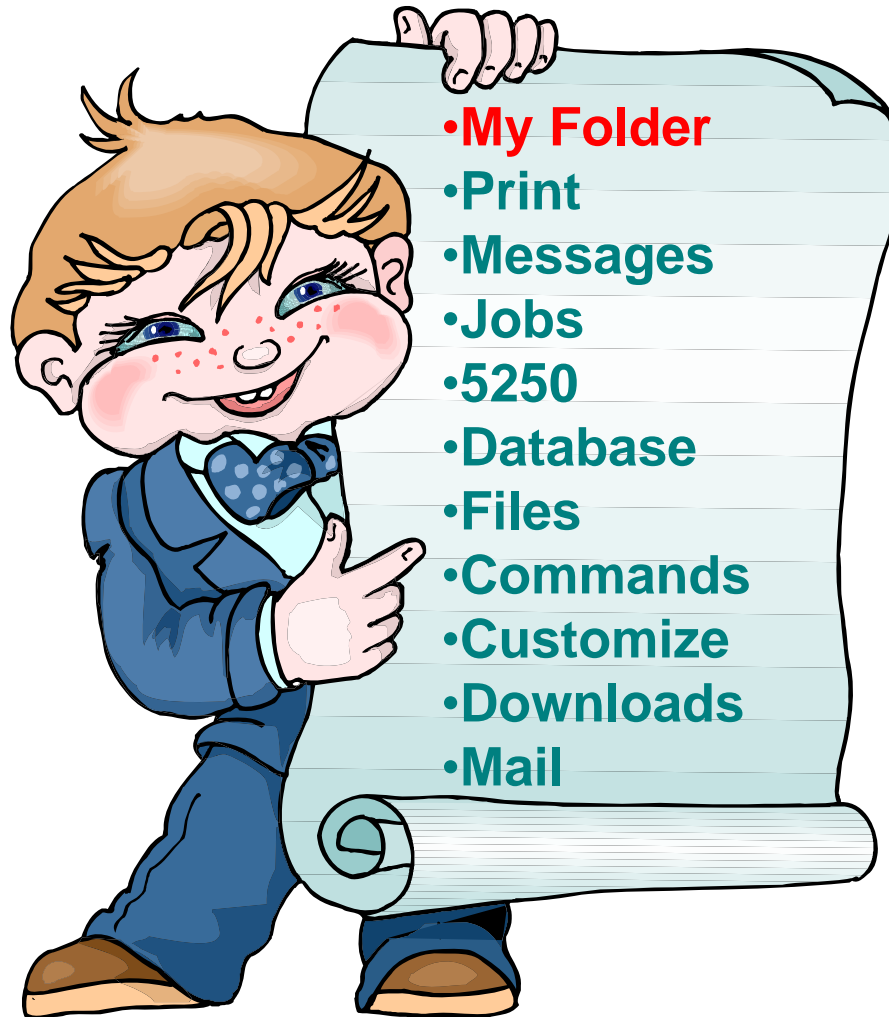
My Folder

Folder resides in the System i 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

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Simply click on 'My Folder' to see items

- **Can store item, email them, delete them, etc**

- **Do not need to understand any Directory structure to put information in My Folder or another's Folder**

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Commands

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

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Run i5/OS CL Commands

1 *Search* for Command

2 Then *Run Command*

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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

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

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Jobs / Server Jobs for end user

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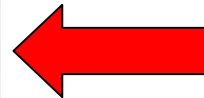
- **Actions Include**
- **Hold Job**
- **Delete/End Job**
- **View Job Log**
- **View Job Properties**

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Messages

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

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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**

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Downloads **(New in V5R3)**

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

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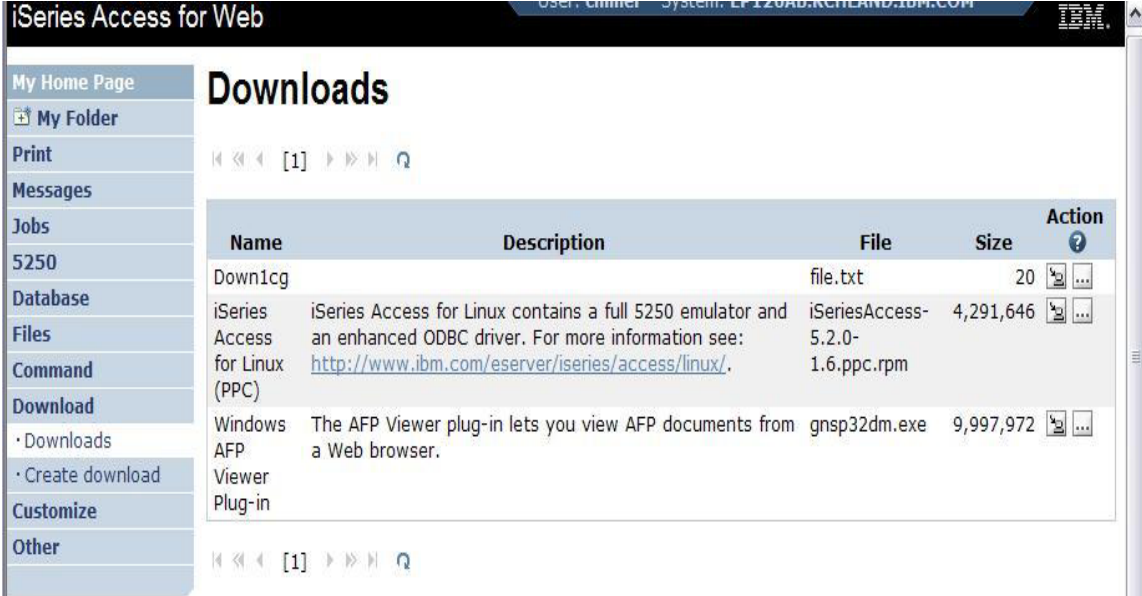
Downloads – for file/program distribution

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**

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Summary

i want an i.

V5R4 System i 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**

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Who will benefit from Access for Web

- **Any System i customer -- with any hardware model - can quickly get started working in a Web environment**
  - **If your system is not capable of running WAS, use the V5R4 Integrated Web Application Server or ASF Tomcat web application server.**
    - **ASF Tomcat runs on hardware with 70 CPW and 256 MB memory**

- **Any System i customer -- with little Web experience - can easily get started working in a Web environment**
  - **System i Access for Web is simple to install and configure**
  - **There is no programming skills required to set it up**

- **Any System i customer -- with no training or setup on users' desktops - can extend the reach of System i resources to your end users**
  - **Use customize facility to set up view ('window') to System i and to control access to various System i resources**
  - **All built around i5/OS user profiles**
  - **Uses standard HTML, uses existing HTTP/HTTPS ports**

A great reason to get your System i into the web world

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