



Part 1. System i Access for Web Overview

i want an i. © 2007 IBM Corporation

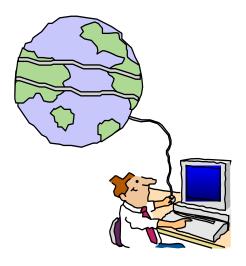


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What is System i Access for Web?

End users can leverage business information, applications, and resources across an enterprise by extending i5/OS resources to the workstation desktop through a web

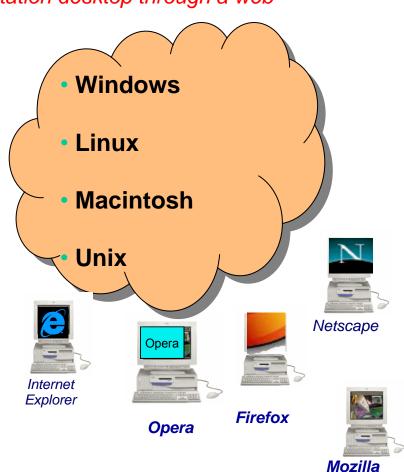
browser

Provides access to i5/OS 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:

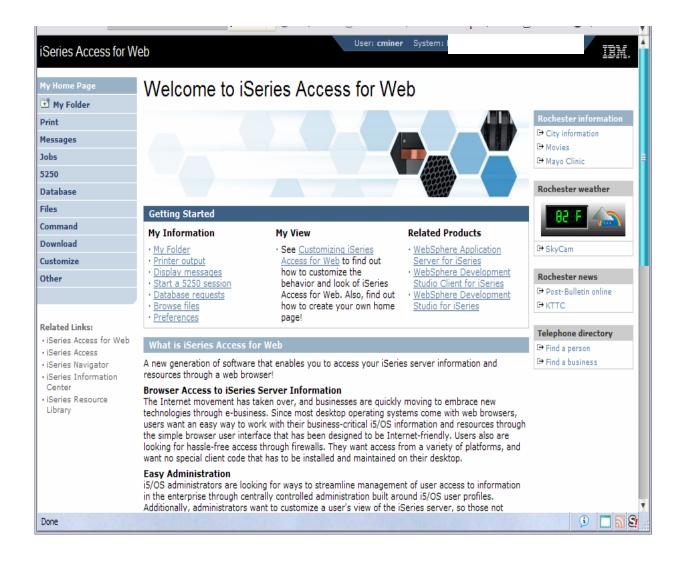
- Is server based
- Requires only a browser on the client, no configuration required at desktop, no applets installed on desktop
- Uses industry standard protocols -HTTP, HTTPS and HTML





System i Access for Web – V5R4

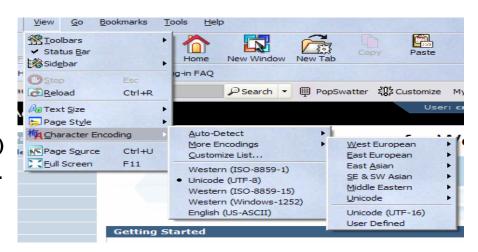
A graphical interface to your i5/OS functions

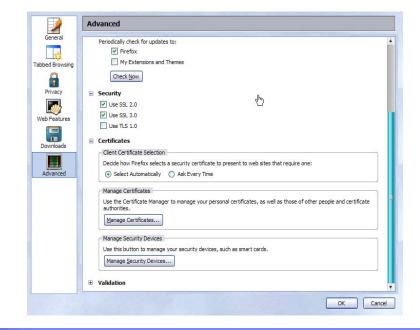




Fully Integrated with your Browser

- 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

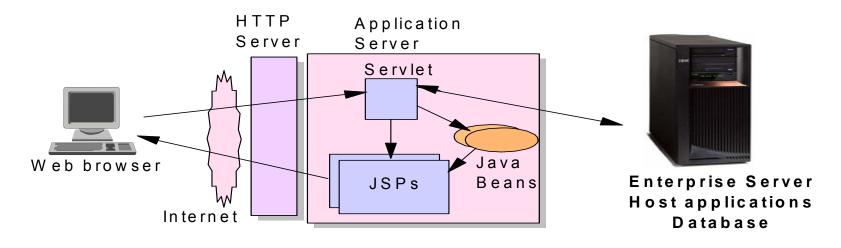






Getting Started

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



Tier 1 Tier 2 Tier 3

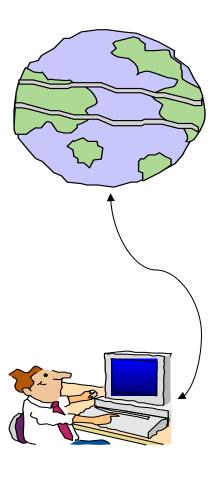
Get Access for Web running

- Print a copy of the Access for Web Install & Users Guide
 - Downloadable from web at http://www.ibm.com/systems/i/software/access/
- 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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Users can now Connect!



- Open browser
- Key in url address
- Prompted for i5/OS user id and password



Different Ways to Roll Out Access for Web

- 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 '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.
- 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
- Use 'out of the box'
 - Set some policies to limit what functions are accessible to your users, and give them the url address to System i Access for Web.



Different Ways to Roll Out System i Access for Web



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

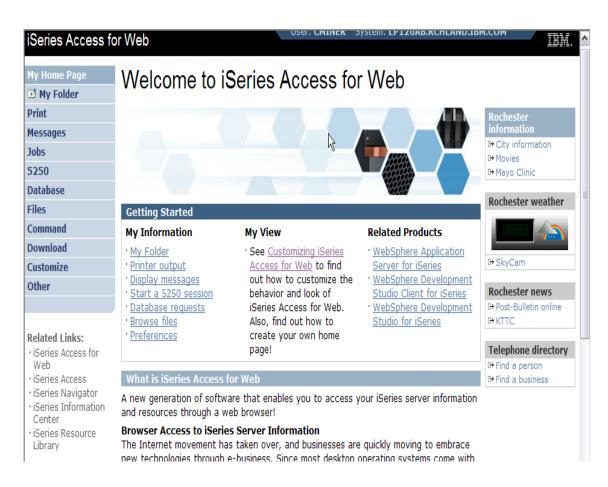


Home Page entry point

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

 Access for Web 'Home Page' out-ofthe-box view

This page is totally customizable



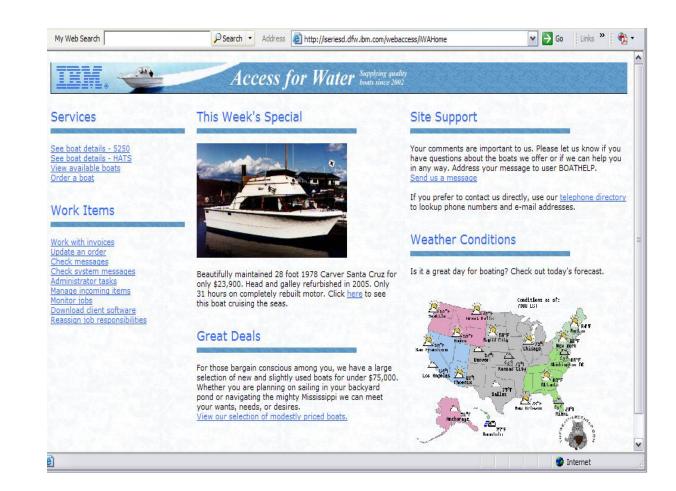
New 'look' in V5R4...

i want an i.

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



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



Using 5250 emulator in Access for Web

See boat details - 5250 See boat details - HATS View available boats Order a boat

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)





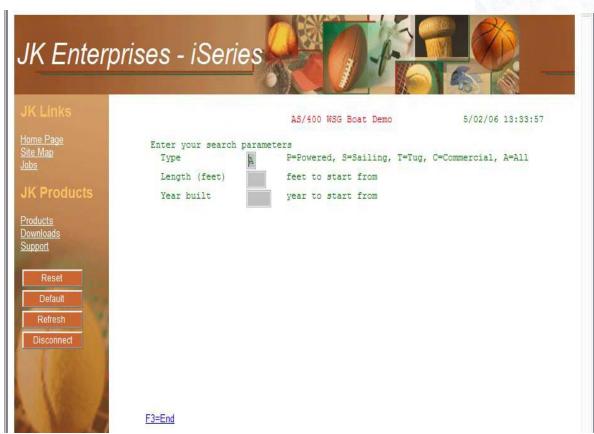
Host Access Transformation Services (HATS)

Easy to link to other web applications

See boat details - 5250 See boat details - HATS View available boats Order a boat

Services

- Work with 'AS/400 WSG Boat Demo' application that was refaced using the IBM HATS Tool
- May require additional signon





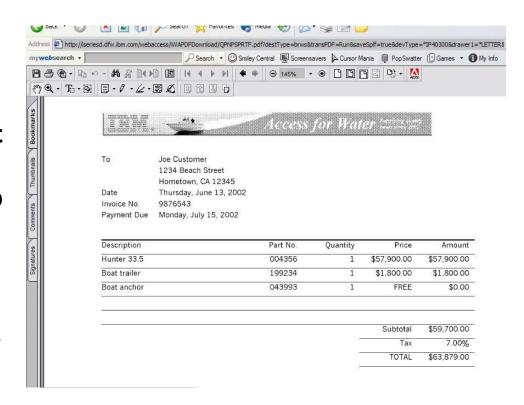
Task Oriented – not function oriented...

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



Access for Water - Microsoft Internet Ex





email PDF output

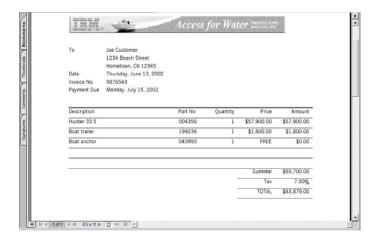
Email integrated with System i Access for Web

- 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.





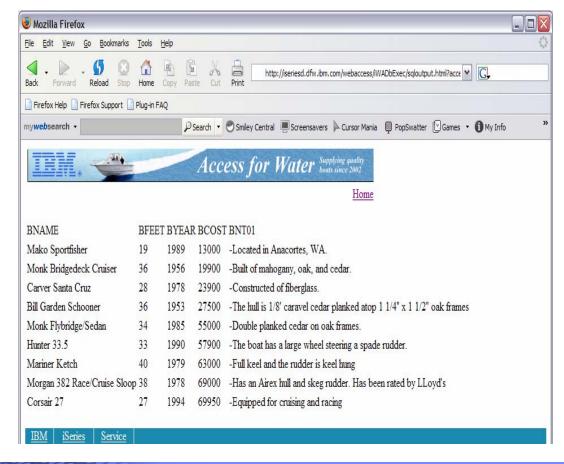


Run a System i Database Query

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







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







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)

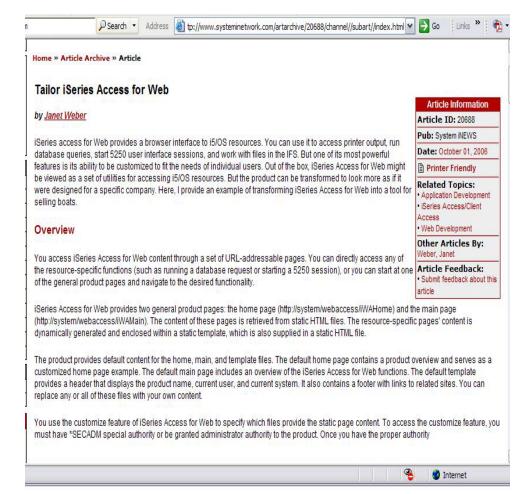
User ID = WUSER	This shows the basic look of Access for Web as we ship it. You can try various functions including working with printer output, creating database requests, etc. Click on the 5250 tab,
Password = demo2pwd	sign onto System i, then start an RPG application called BOATS and run it.
User ID = BOATADMIN	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
Password = demo2pwd	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



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



Different Ways to Roll Out System i Access for Web

 Create your own 'window' to your system through System i Access for Web



- Use 'out of the box', but set up predefined functions
- Use the WebSphere Portal solution
- Use 'out of the box'



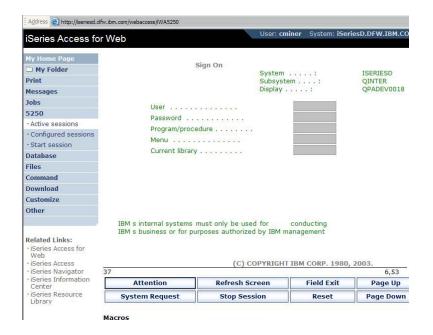


Access for Web has many entry points

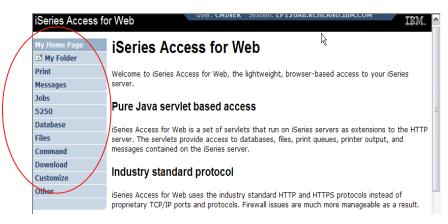
'URL Interfaces to iSeries Access for Web' manual available on the web

- Can enter at many different pages
- Can use navigation bar to move from function to function

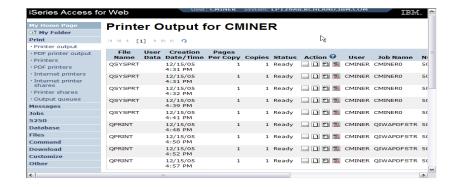
http://<myiseries>/webaccess/iWA5250



http://<myiseries>/webaccess/iWAMain

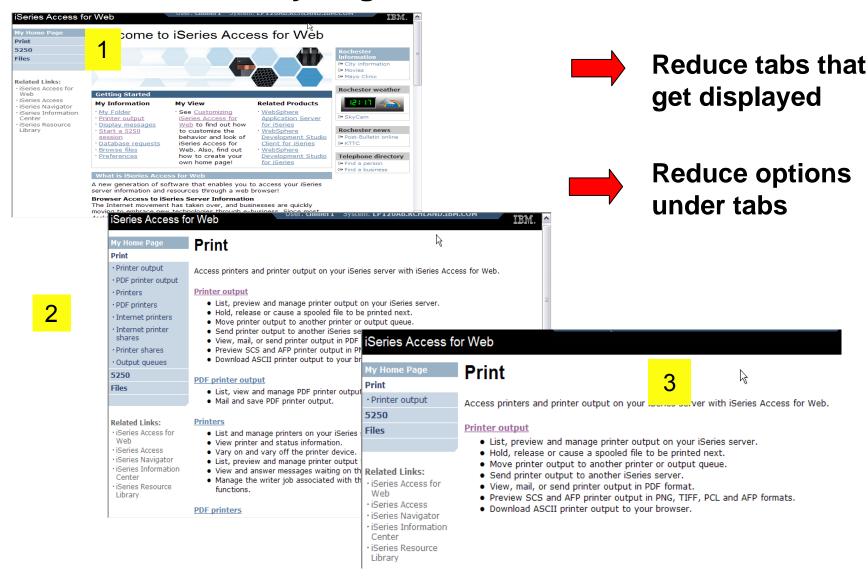


http://<myiseries>/webaccess/iWASpool





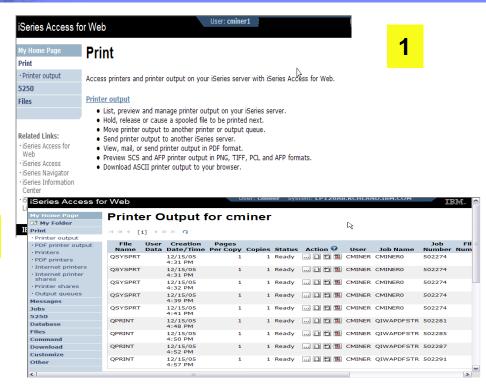
Reduce functions you give to users

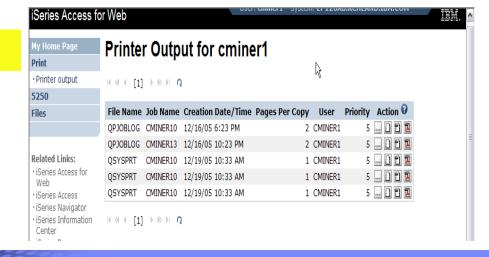




Printer Output - Spoolfile

- 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







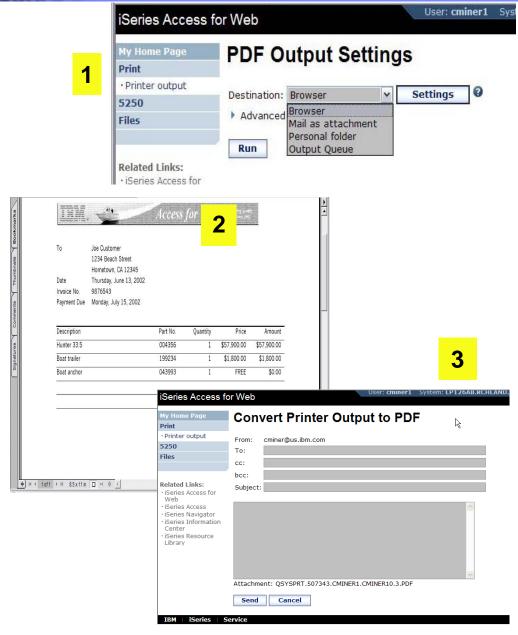
Printer Output - Spoolfile

1. Requested 'View PDF'

 Can select any option on pulldown for my printer output

2. View in Browser

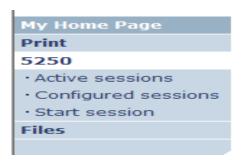
- Shows overlays, etc
- Can print on any printer in network
- 3. Send .PDF document in an email
 - Mail server does not have to be installed on System i



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





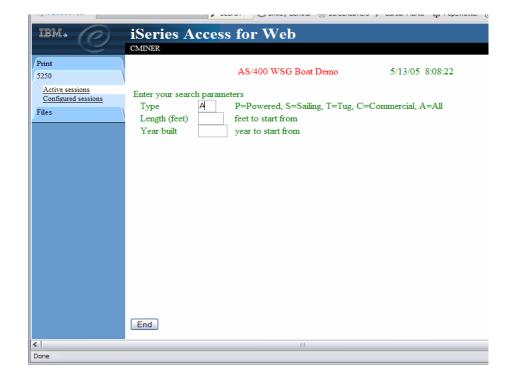




User can run 5250 application

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





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





Series Access for Web







Work with Files in the IFS

- Navigate and browse the directories located on your System is server integrated file system
 - Don't need to map drives
 - Don't need to know directory structures



- View, upload, and download files
- Copy and mail files
- Rename and delete files and directories
- Zip and unzip files and directories
- Edit authorities and change ownership of objects in the integrated file system

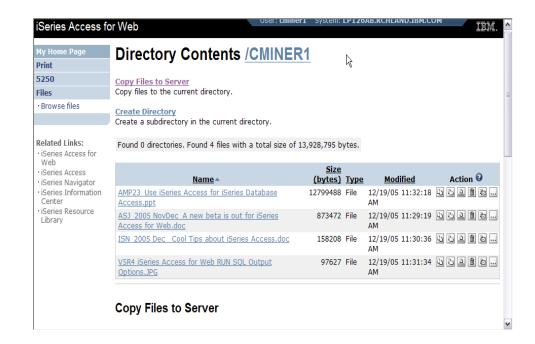
Browse Files - 'Filtered View'

When I click on 'Browse Files', I see only 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)





Different Ways to Roll Out System i Access for Web

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





- Use the WebSphere Portal solution
- Use 'out of the box'

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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)





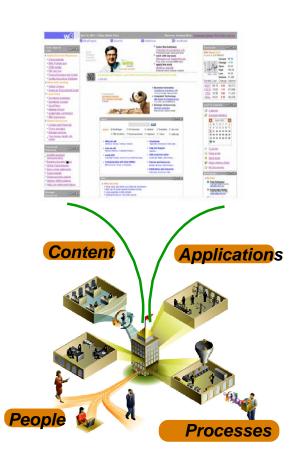
WebSphere Portal Offerings for System i

i5 Models 550, 570 and 595

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

i5 Model 520

 Workplace Services Express V2.5 ships with Enterprise Edition



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



Portal with System i – additional info

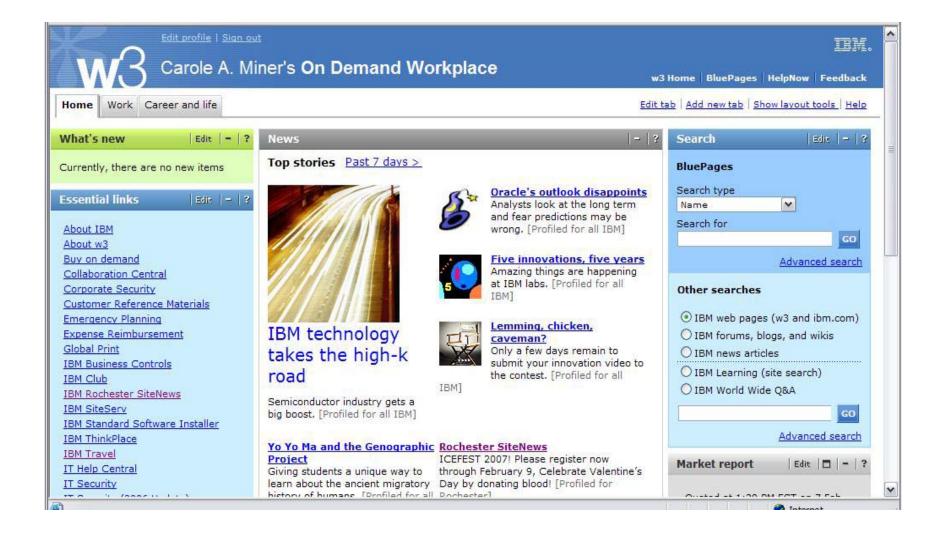
Flexible portal licensing (per-user OR per-processor pricing)

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	

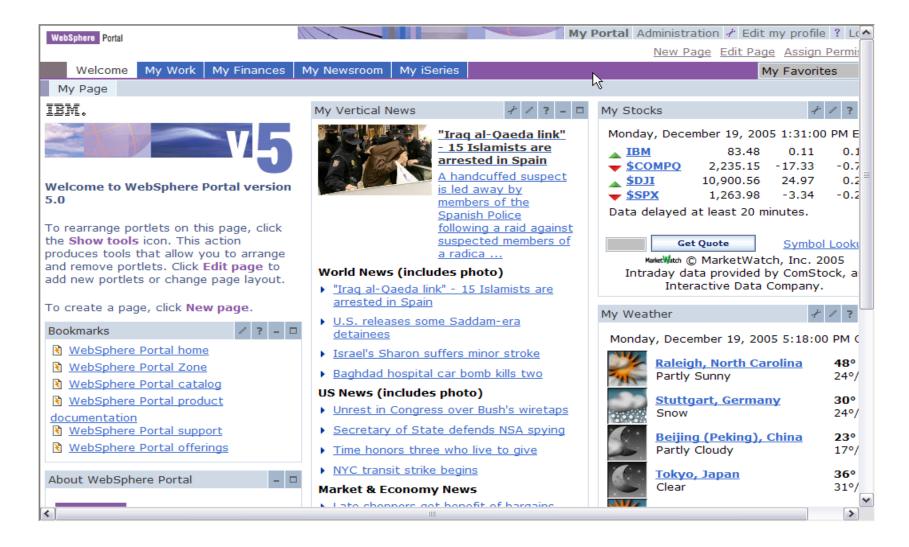
eServer iSeries systems purchased on or after July 12, 2005		
IBM WebSphere Portal – Express Plus		
eServer iSeries Model/Edition	User licenses of IBM WebSphere Portal – Express Plus V5.0.2 included	
eServer iSeries 825, 870, and 890 with Enterprise Edition	20	
eServer i5 520 with Enterprise Edition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

Portal built for IBM Employees

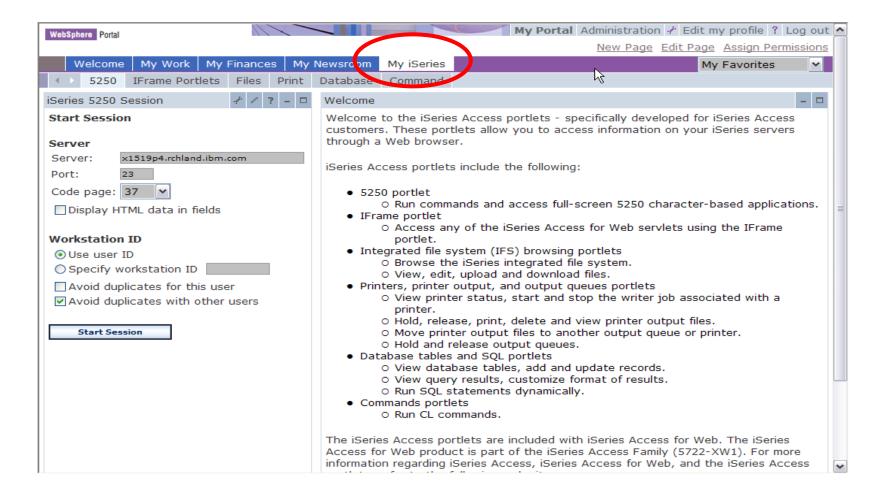


Portal built on i5/OS





System i Access for Web Portlets on System i Portal

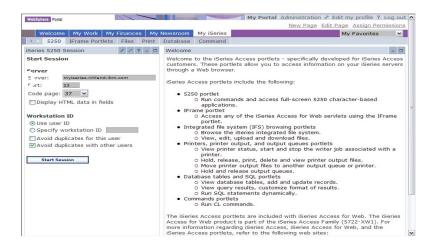


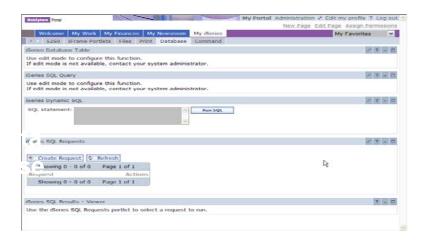
Portlet Support added to System i Access for Web

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



System i Access Portlet Views – V5R4











Different Ways to Roll Out System i Access for Web

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





Use 'out of the box'





How to Start a 5250 Session

Two options:

1. Select 'Start Session'

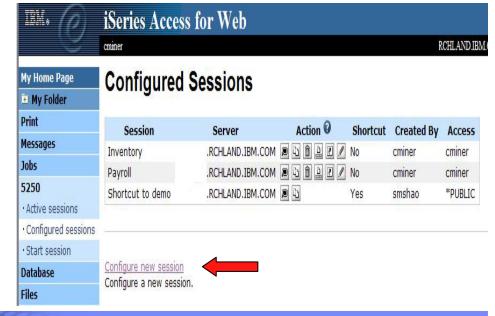
- Fill in information on Start
 Session and connect
- To save the session, select 'Active Session Settings' link at bottom of screen, modify any information you wish, then click on 'Save'

2

2. Select 'Configured Sessions'

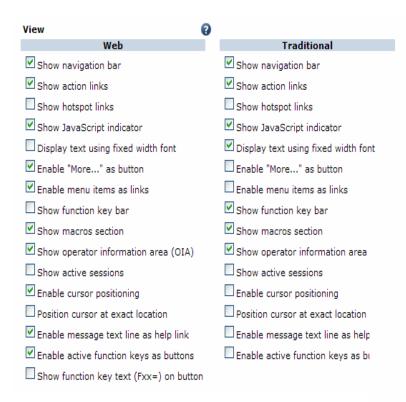
- Select 'Configure New Session' link on lower screen
- Set up as you wish, then click on 'Save'







Set up 5250 look and feel



Set up screen look-and-feel

- Web look, Traditional look
- Buttons

Pick screen and text colors

Foreground colors F		Foregrou	Foreground colors		
5250	Browser		5250	Browser	
Black:	Black 💌		Black:	Black 🕶	
Blue:	Blue 💌		Blue:	Blue 💌	
Green:	Green 💌		Green:	Green 🕶	
Cyan:	Teal 💌		Cyan:	Teal 🕶	
Red:	Red 💌		Red:	Red 🕶	
Magenta:	Fuchsia 💌		Magenta:	Fuchsia 🕶	
Brown:	Yellow 💌		Brown:	Yellow 🕶	
White:	Gray 💌		White:	White 💌	
Operator information area (OIA) Color: Black Color: Blue Color: Blue Color: Blue Color: Col					
Background colors The browser background color is used. Background colors Color: Black					
Save Cancel Save As Defaults Load Defaults Load Shipped Defaults					
	for editing a	onfigured session.			



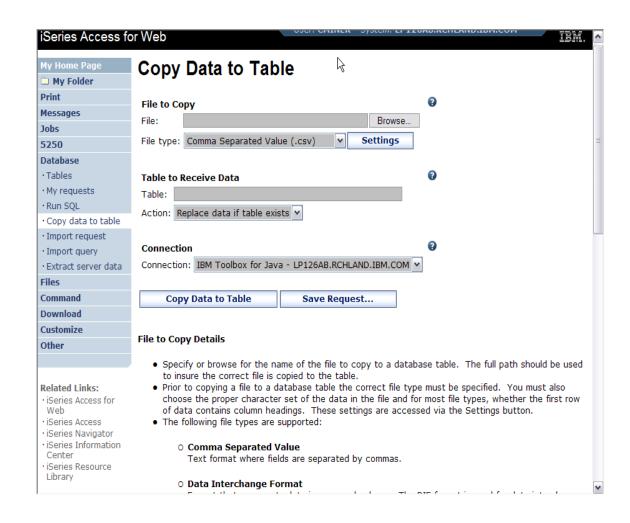


Copying Data to DB2 for i5/OS

Copy data to table function allows you to copy PC data into a DB2 for i5/OS table

Specify:

- File name
- File type
- File settings
- Table name
- Replace or append records to table
- Connection

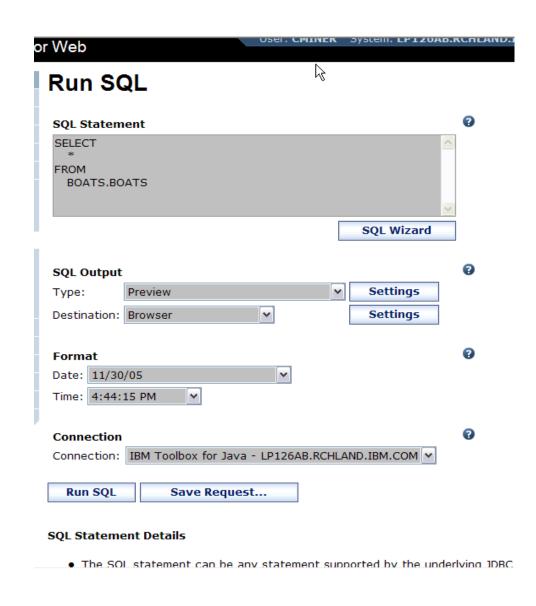




Run SQL

The Run SQL function allows you to type in a free-form SQL Statement

- If you do not know SQL, then use the SQL Wizard to help you generate an SQL SELECT statement
- Select from a variety of output formats, including:
 - Preview
 - PDF
 - -.XLS (Excel)
 - XML
 - HTML
 - _ ...



Printing



Work with Printer Output, Printers, Queues

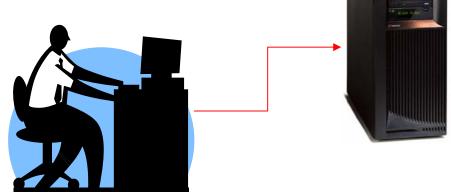
Typical end user printer tasks

- 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





Work with Printer Output

http://<myiseries>/webaccess/iWASpool

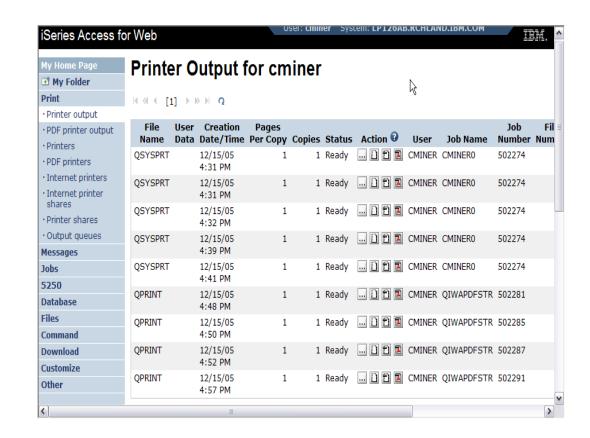
My 'printer output'

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





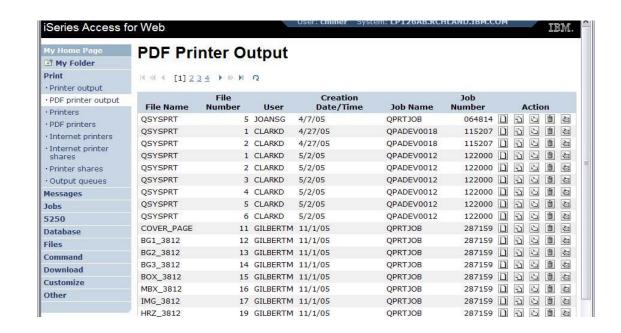
PDF Printer Output

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)

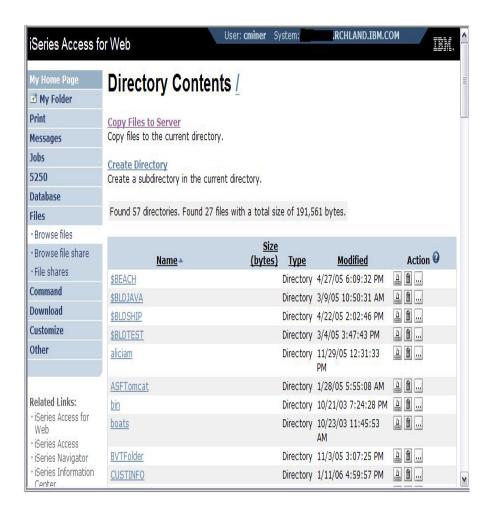
IFS



IFS – Use as a File Server

Full access to IFS

- Files tab has many link options beneath it
- Connected to 'Root' directory
 - Can see all directories in IFS
 - No access restrictions

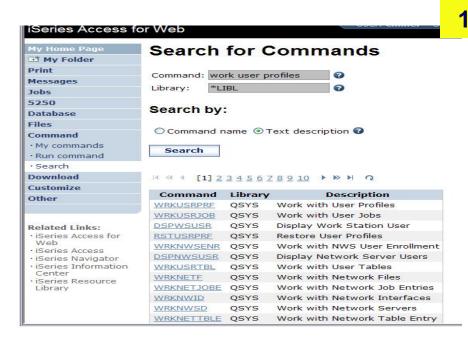


Commands



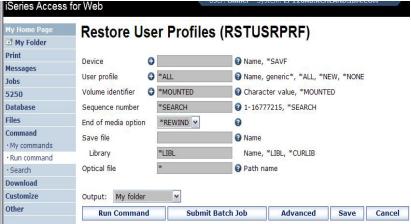


Run i5/OS CL Commands



Search for Command

2 Then *Run Command*





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



My Folder



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

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



 Administrator can control upper size limit of users' folders



Different Ways to Roll Out System i Access for Web

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



Which option do you prefer?