



Session: 409136

# @server® iSeries.

## Using iSeries Access for Web (V5R3) in a web-connected world

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## iSeries Access for Web – Sessions in Chicago



1. 31GM - iSeries Access for Web and HATS LE: Setup and Configuration
2. 32GM - iSeries Access for Web: The Browser Alternative!
3. 35LA - LAB: iSeries Access for Web/HATS LE: Installation and Configuration
4. 36LA - LAB: iSeries Access for Web/HATS LE: Installation and Configuration
5. 41GH - iSeries Access for Web Runs in a Portal
6. 42GH - iSeries Access for Web: Run 5250 in a Browser
7. 44GH - Tips and Techniques for iSeries Access for Web
8. 45GM - iSeries Access for Web: Database Access
9. 51GI – Programming with iSeries Access for Web
10. 52GH - iSeries Access for Web: Control Access to your iSeries Resources
11. 53GH - iSeries Access for Web: Printing Made Easy Through Your Browser
12. 55LA - OPEN LAB: iSeries Access for Web
13. 56LA - OPEN LAB: iSeries Access for Web

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

**Abstract:**

The iSeries Access Family has expanded its offering to include a browser-based option called 'iSeries Access for Web'.

Many iSeries customers are looking for a fast, easy, and zero-admin alternative for connecting to their servers -- and iSeries Access for Web is that solution! Come to this session to learn how this product can simplify your PC network administration while at the same time offering end user functions customers help come to expect with Client Access products.

By the end of this session, attendees will be able to:

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

- **What is Access for Web?**
  
- **Getting Started**
  
- **Control Access to functions**
  
- **Ways to roll out to end users**
  - 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
  
- **Additional Information in Appendix on following functions:**
  - Other Tab
  - 5250
  - Print
  - IFS
  - Database
  - My Folder
  - Commands





## 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

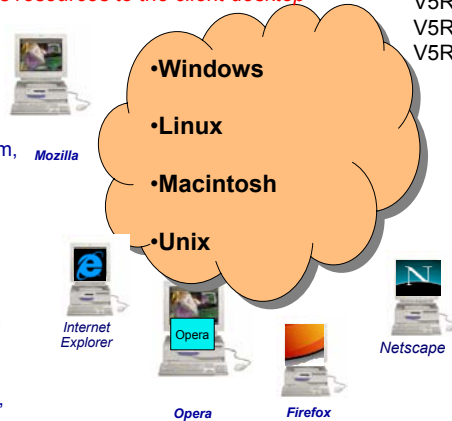
OS/400  
V5R1  
V5R2  
V5R3

- Provides access to iSeries through a browser

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

- It has the following advantages:

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



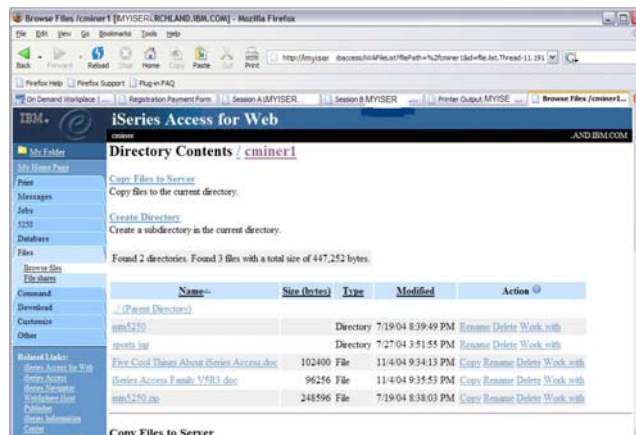
## Firefox Browser



- Firefox browser provides tabs

- Simply press File → New tab to open additional windows

- Download from [www.mozilla.com](http://www.mozilla.com)

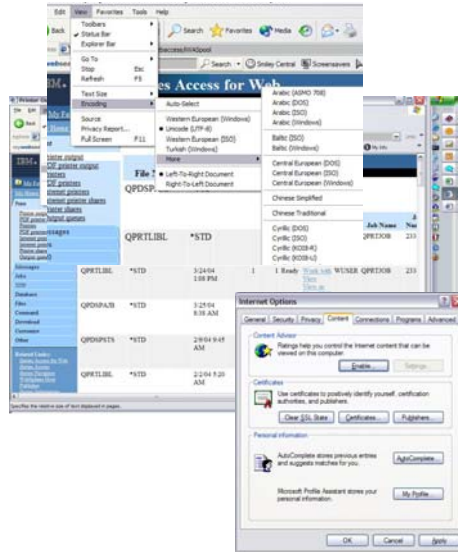




## Fully Integrated with your Browser



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



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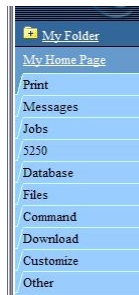


## V5R3 functions you can perform



### iSeries Access for Web, 5722-XH2, V5R3

- My Personal Folder
- Print
  - Printer output
  - **PDF Printer output**
  - Printers
  - **PDF Printers**
  - Internet Printers
  - Internet Printer Shares
  - Printer shares
  - Output Queues
- Database
  - Tables
  - My Requests
  - Run SQL
  - Copy Data to Table
  - Import Request
  - **Extract Server Data**
- 5250
  - Active Sessions
  - Start 5250 Session
  - Configured Sessions
- Commands
  - Run commands
  - My commands
  - Search
- Files
  - Browse Files
  - File Shares
- Messages
  - Display Messages
  - Send Messages
  - **Sametime**
  - Operator Messages
  - Message Queue
- Jobs
  - **User Jobs**
  - **Server Jobs**
- Customize
  - **Preferences**
  - **Policies**
  - **Settings**
- **Download**
- Other
  - **Bookmarks**
  - **Change Password**
  - **Connection Pool**
  - **Status**
  - **Trace**
  - **About**

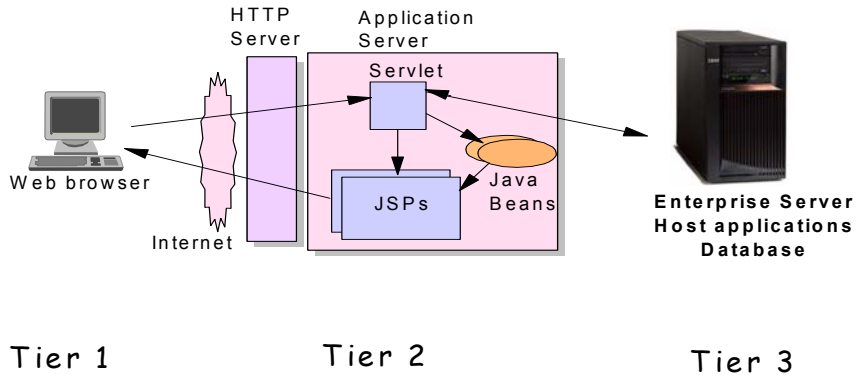


Items marked in red are new in the V5R3 version

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



	Web Application Server	Minimum iSeries Requirements
5722-DG1	<b>ASF Tomcat</b> •The ASF Tomcat web application server is part of the no-charge IBM HTTP Server for iSeries (5722-DG1)	70 CPW 256 MB memory
	•WebSphere Application Server Advanced Edition V4 •WebSphere Application Server Advanced Edition Single Server V4	
Ships with i5 V5R3	<b>WebSphere Application Server V5.0 Express for iSeries</b> WAS V5.0 Base and WAS V5.0 Network Deployment	300 CPW 512 MB memory
Ships with i5 V5R3	<b>WebSphere Application Server -- Express V5.1</b> WAS V5.1 Base and WAS V5.1 Network Deployment	300 CPW 512 MB memory
	•WebSphere Portal - Express for Multiplatforms V5.0.2 •WebSphere Portal - Express Plus for Multiplatforms V5.0.2	750 CPW 2 GB memory
Ships with i5 V5R3	<b>WebSphere Application Server – Express V6.0</b>	300 CPW 512 MB memory

# IBM Performance Considerations...



## Does running Access for Web affect server performance?

- Products like Access for Web and HATS LE don't put much strain on the system...

## How does the web application server affect performance?

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

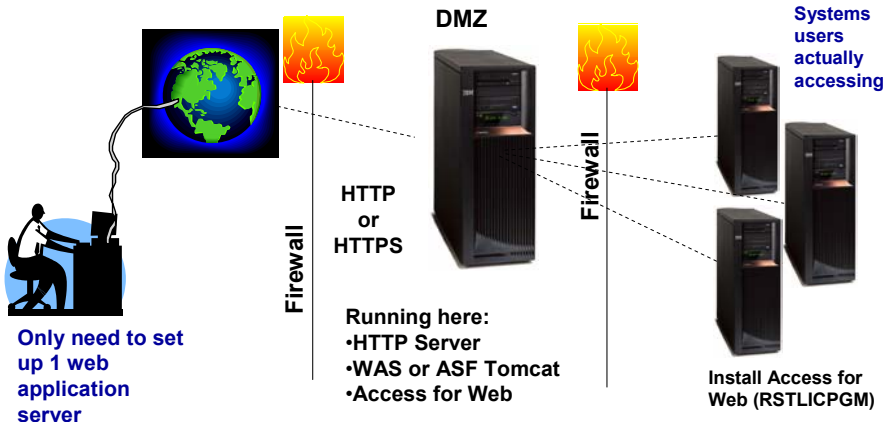
## Fine-tuning your web application server

- If you are running WebSphere Application Server, refer to **Chapter 4 of the Buying and Selling Guide for WAS**. It has many good tips for getting WAS to perform optimally.
- Go to the iSeries WebSphere web page at <http://www-1.ibm.com/servers/eserver/iseries/software/websphere/index2.html>

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# IBM Setting up your web application server



DMZ = demilitarized zone

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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 8480 for USF
- Port 389 (636) for LDAP
- Port 5555 (5566) for Mgmt Central
- Port 53 if using DNS Server

### iSeries Access for Web (5722-XH2)

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

\*See Information APAR II12227 for detailed information

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## Get Access for Web running



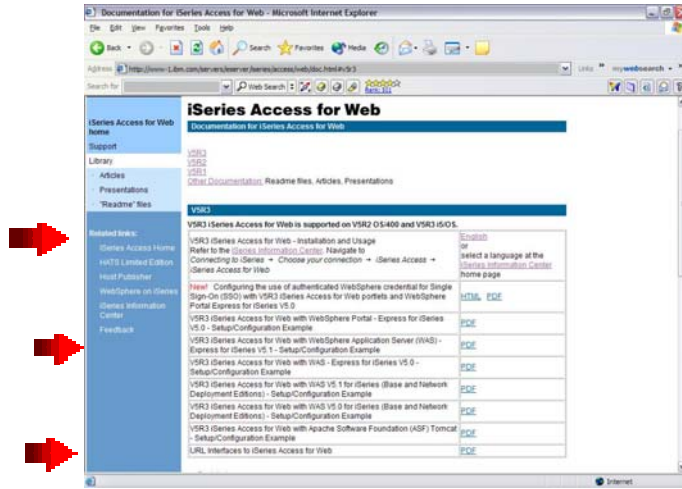
- Print a copy of the Access for Web Install & Users Guide
  - Downloadable from web at <http://www.ibm.com/eserver/iseries/access/web>
- Install iSeries Access for Web from your OS/400 stacked media.
  - RSTLICPGM - Install Access for Web, 5722-XH2, into QIBM directory
- Configure and start Access for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

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## Access for Web Documentation



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

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## 4 CL Commands in Access for Web



### Example of the CL commands

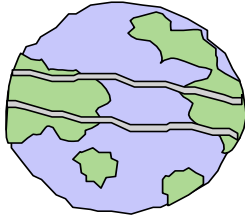
- **Configure Command** example when using WebSphere Application Server V5.0 - Express for iSeries
  - CFGACCWEB2 APPSVRTYPE(\*WAS50EXP) WASINST(MYINST)  
NODENAME(\*DEFAULT) APPSVR(\*DEFAULT) SRCSVRTYPE(\*WAS40ADV)  
SRCSVRINST(\*DEFAULT) SHRUSRDTA(\*NO)
- **Start Command** example when using WebSphere Application Server V5.0 - Express for iSeries
  - STRACCWEB2 APPSVRTYPE(\*WAS50EXP) WASINST(MYINST)  
APPSVR(\*DEFAULT)
- **End Command** example when using WebSphere Application Server V5.0 for iSeries
  - ENDACCWEB2 APPSVRTYPE(\*WAS50) 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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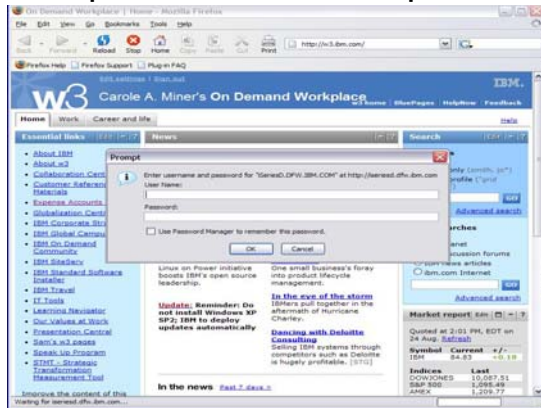
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# IBM Users can now Connect!



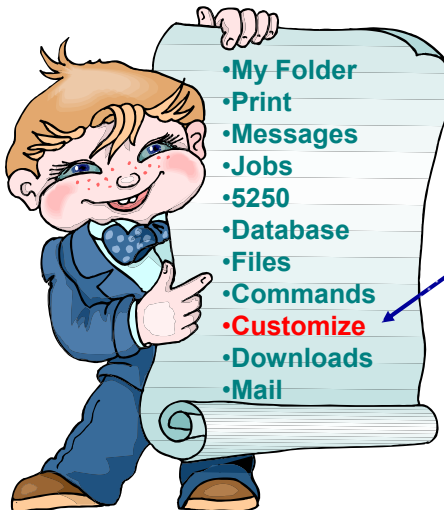
- Open browser
- Key in iSeries url
- Prompted for OS/400 user id and password



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# IBM Control User Access to functions



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

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## 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

Note: Let's say you give users full access to the 'Database' tab. If you have set up Object Level authority to your data, users will get OS/400 messages indicating they are not authorized to access data



## Customize → Policies



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

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

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



## Policies - customize for all users at once



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

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

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

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

The screenshot shows the 'Policies - Print' configuration page for the 'PUBLIC' profile. It features a table with columns for Policy, Derived From, and Action. The policies listed include Print access, Print tab, Printer output, View printer output, Preferred format to preview AFP output, Preferred format to preview SCS output, View printer output as selected format, Hold/release printer output, Print next, Delete printer output, and Move printer output. Each policy has a 'Derived From' value of 'Shipped default' and an 'Action' dropdown menu.

Policy	Derived From	Action
Print access	Shipped default	Use current setting
Print tab	Shipped default	Use current setting
Printer output	Shipped default	Use current setting
View printer output	Shipped default	Use current setting
Preferred format to preview AFP output	Shipped default	Use current setting
Preferred format to preview SCS output	Shipped default	Use current setting
View printer output as selected format	Shipped default	Use current setting
Hold/release printer output	Shipped default	Use current setting
Print next	Shipped default	Use current setting
Delete printer output	Shipped default	Use current setting
Move printer output	Shipped default	Use current setting



## 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

The screenshot shows the 'Preferences - My Folder' configuration page. It features a table with columns for Preference, Derived From, Action, and Setting. The preferences listed include Minimum folder items allowed, Minimum folder size allowed, My Folder link, Mark folder items opened/unopened, My Folder notification, Notify on new folder items, Notify on folder items threshold, Folder items threshold, Notify on folder size threshold, Folder size threshold, E-mail address to notify, Summarize user to notify, My Folder columns, My Folder sort column, and My Folder sort order. Each preference has a 'Derived From' value of 'Shipped default' and an 'Action' dropdown menu.

Preference	Derived From	Action	Setting
Minimum folder items allowed	No maximum		
Minimum folder size allowed	No maximum		
My Folder link	Shipped default	Use current setting	Show
Mark folder items opened/unopened	Shipped default	Use current setting	Yes
My Folder notification	Shipped default	Use current setting	Email and Summarize
Notify on new folder items	Shipped default	Use current setting	Yes
Notify on folder items threshold	Shipped default	Use current setting	Yes
Folder items threshold	Shipped default	Use current setting	100 %
Notify on folder size threshold	Shipped default	Use current setting	Yes
Folder size threshold	Shipped default	Use current setting	100 %
E-mail address to notify	Shipped default	Use current setting	emine@usa.ibm.com
Summarize user to notify	Shipped default	Use current setting	
My Folder columns	Shipped default	Use current setting	Columns
My Folder sort column	Shipped default	Use current setting	Date/Time
My Folder sort order	Shipped default	Use current setting	Descending



## Different Ways to Rollout 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



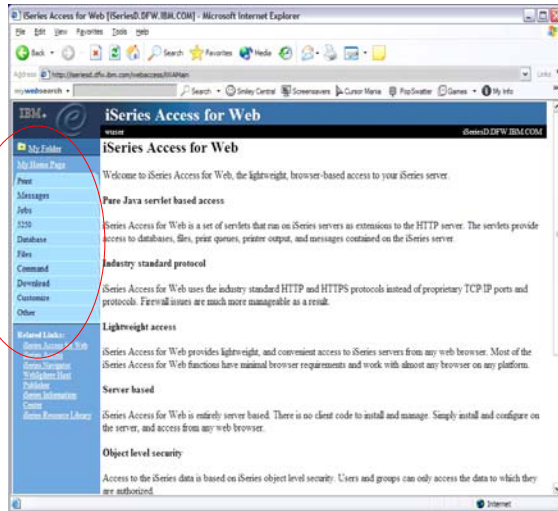
- Use 'out of the box'
- Use 'out of the box', but set up predefined functions
- Create your own 'window' to your system through Access for Web
- Use the WebSphere Portal solution



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

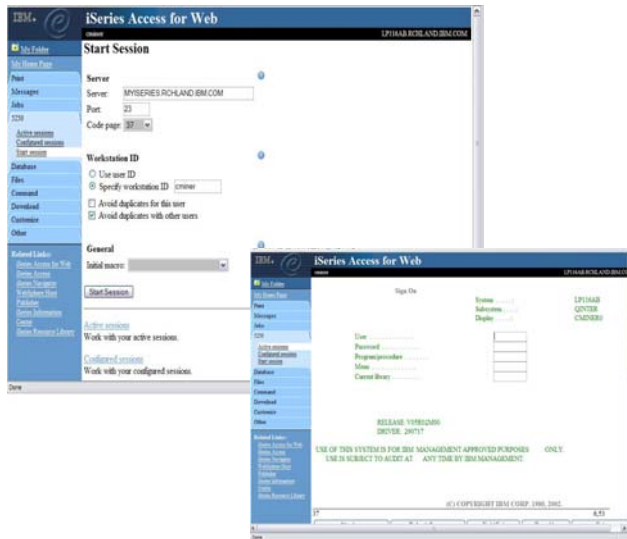
Users would typically use the Access for Web 'Main Page' url

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



Users can configure and start 5250 sessions

- They select how they want their workstation ID
- Which iSeries to connect to
- Screen look
- ...

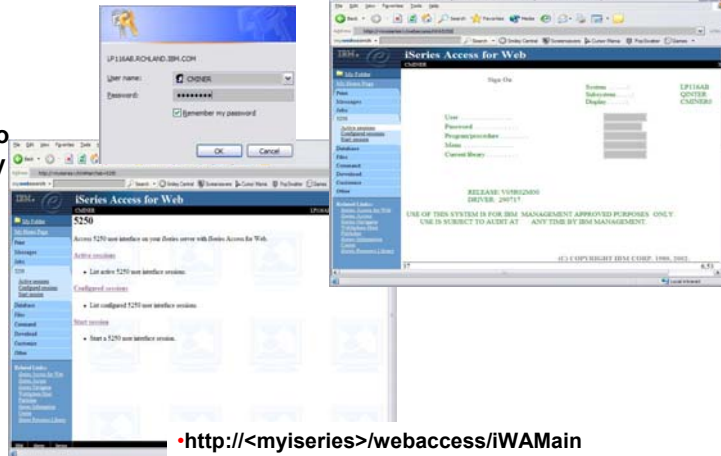


# IBM Run 5250 sessions



- Users can **start** new 5250 sessions
- Users can **reconnect** to a previously **active** session

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



Out of the box look

- <http://<myiseries>/webaccess/iWAMain>
- <http://<myiseries>/webaccess/iWAMain?tab=5250>

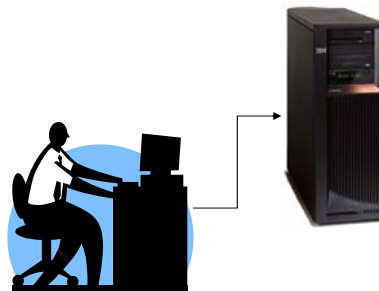
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# IBM Work with Printer Output, Printers, Queues



- Typical end user printer tasks
  - Printer Output
  - PDF Printer Output
- Tasks possibly oriented more toward system operators, administrators, programmers, etc
  - Printers
  - PDF Printers
  - Internet Printers
  - Internet Printer Shares
  - Printer Shares
  - Output Queues



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# IBM Work with Printer Output Queue - Spoolfile



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

## My 'printer output'

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

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

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

File Name	User Data	Creation Date/Time	Pages	Copies	Status	Action	User	Job Name	Number
QPIOBLOG QPADEV0009		7:19:04 3:11 PM	2	1	Ready	Work with	CMINER	QPADEV0009	086872
QPIOBLOG QPADEV000V		7:20:04 9:04 AM	2	1	Ready	Work with	CMINER	QPADEV000V	087982
QPIOBLOG QPADEV000V		7:20:04 9:41 AM	2	1	Ready	Work with	CMINER	QPADEV000V	087983
QPIOBLOG CMINER11		7:26:04 9:56 PM	1	1	Ready	Work with	CMINER	CMINER11	088403
QPIOBLOG QPADEV000S		8:2:04 3:19 PM	2	1	Ready	Work with	CMINER	QPADEV000S	103974

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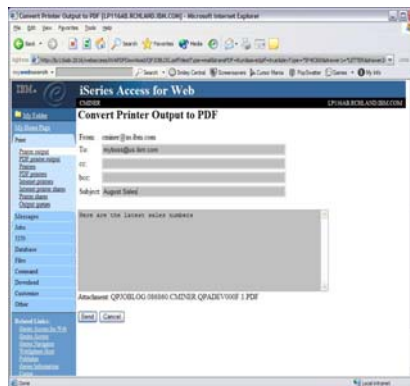
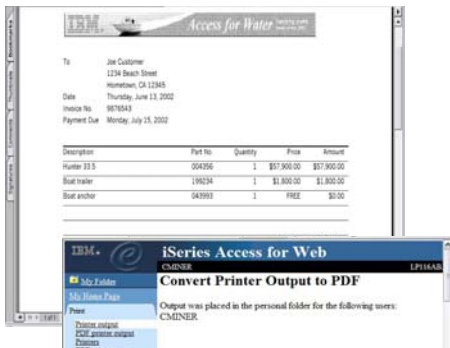
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# IBM PDF and email PDF output



- Convert to PDF and display in browser
- Can then be printed on any network printer

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



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<http://<myseries>/webaccess/iWAPDFPrinterOutput>

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

File Name	File Number	User	Creation Date/Time	Job Name	Job Number	Action
QPJOBLOG	12	CMINER	8/27/04	QPRTJOB	124816	<a href="#">View</a> <a href="#">Copy to file</a> <a href="#">Copy to folder</a> <a href="#">Delete</a> <a href="#">Mail</a>
QPJOBLOG	13	CMINER	8/27/04	QPRTJOB	124816	<a href="#">View</a> <a href="#">Copy to file</a> <a href="#">Copy to folder</a> <a href="#">Delete</a> <a href="#">Mail</a>
QPJOBLOG	14	CMINER	8/27/04	QPRTJOB	124816	<a href="#">View</a> <a href="#">Copy to file</a> <a href="#">Copy to folder</a> <a href="#">Delete</a> <a href="#">Mail</a>

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

- Upload data from a variety of file types
  - Excel, XML, Lotus, etc
- Put into iSeries database
  - 'Replace' contents of table
  - 'Append' to existing data
- If no table exists on the iSeries, you will get a wizard to help you create a new table



**Copy Data to Table**

File to Copy:

File:  Browse

File type: Microsoft Excel XML (.xml) Settings

Table to:

Table: Microsoft Excel XML (.xml)

Action: Data Interchange Format (.dft)

Connection: IBM Toolbox for Java: MYSERIES. IBM.COM

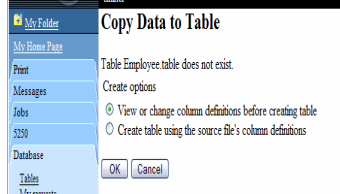
Buttons: Copy Data to Table Save Request

**File to Copy Details**

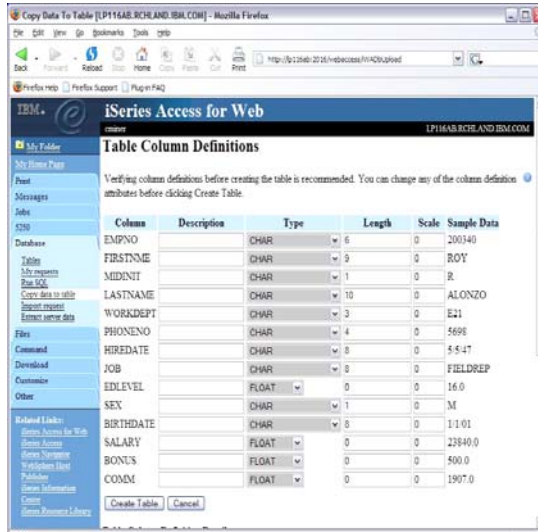
- Specify or browse for the name of the file to copy to a database table. The full path should be used to insure the correct file is copied to the table.
- Prior to copying a file to a database table the correct file type must be specified. You must also choose the proper character set of the data in the file and for most file types, whether the first row of data contains column headings. These settings are accessed via the Settings button.
- The following file names are reserved.



# IBM Create iSeries Table



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



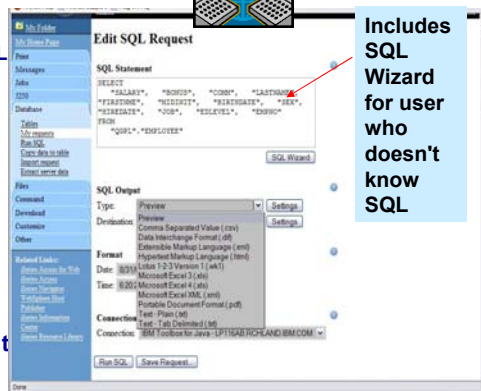
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# IBM Download Database Information from iSeries



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



Includes SQL Wizard for user who doesn't know SQL

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## Create Database Requests with SQL Wizard

@server®

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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## Work with Files in the IFS

@server®

<http://<myseries>/webaccess/iWFileSelect>

- Navigate and browse the directories located on your iSeries server integrated file system.
- 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.



Shipped Default → see everything in IFS

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**iSeries. mySeries.**

• **File Shares shows NetServer view of IFS...**

- Can see all Directories in IFS that have been set up with 'File Sharing'

• **Use iSeries Navigator to set up directories for 'sharing'**

- Some could be 'read only', some 'read/write'

Share Name	Description	User Count	Permission
ALCIAM	my folder	0	Read / Write
CMINER1	Carole Miner directory	0	Read / Write
HOMEPAGE		0	Read Only
JPVALDEZ		0	Read Only
LAURALS		0	Read Only
QDIRSRV	OS/400 -- Directory Services	0	Read / Write
QIBM	IBM Product Directories	0	Read / Write
ROOT		1	Read / Write
TEST		0	Read Only
WALAB		0	Read / Write
WALABRO	iSeries Access for Web lab, read only	0	Read Only
WALABRW	iSeries Access for Web lab, read only	0	Read / Write
WRIGHTJ		1	Read / Write
YESI		0	Read / Write
YETZER		0	Read / Write

**Folder resides in the iSeries IFS**

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

**Folder can only be accessed by owner**

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

**Can place information in other users' Folders**

- Performing requests for someone else
- Mechanism for workflow.

**Combine email and My Folder functions to:**

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



Simply click on 'My Folder' to see items



- Can store items, email them, delete them, etc

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

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



Run iSeries CL Commands



**1** Search for Command

Command: work active jobs  
Library: \*LIBL

Search by:  
 Command name  Text description

**2**

Then Run Command

Command	Library	Description
<a href="#">WRKACTJOB</a>	QSYS	Work with Active Jobs
<a href="#">QDEVELOP</a>	BATS	Work with Active Jobs
<a href="#">WRKSBSJOB</a>	QSYS	Work with Subsystem Jobs
<a href="#">WRKUSRJOB</a>	QSYS	Work with User Jobs
<a href="#">WRKPMSCH</a>	QSYS	Work With Scheduled Jobs
<a href="#">DSPACTPJ</a>	QSYS	Display Active Prestart Jobs

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



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

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



My Folder

My Home Page

Print

Messages

- Display messages
- Send message
- Send break message
- Operator messages
- Message queues

Jobs

- 5250
- Database
- Files
- Command
- Download
- Customize
- Other

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- WebSphere Host Publisher
- iSeries Information Center
- iSeries Resource Library

**Messages**

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

Display messages

- Display, answer and manage messages in the message queue for the logged on user.

Send message

- Send a message to users and message queues.

Send break message

- Send a Sametime announcement to iSeries Access for Web Sametime users.
- Send a break message to iSeries work stations.

Operator messages

- Display, answer and manage messages in the system operator message queue.

Message queues

- List message queues on the iSeries server.
- Select, display and manage messages in message queues.

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

The top screenshot shows the 'Send Message' form. It has a 'To Series user profile:' field with an 'Add...' button. Below it is a 'To message queues:' field with an 'Add...' button. A red arrow points to this 'Add...' button. The 'Message type' is set to 'Informational'.

The bottom screenshot shows the 'Send Break Message' form. It has a 'To Series Access for Web Sametime users:' field with an 'Add...' button. Below it is a 'To work stations:' field with an 'Add...' button. A red arrow points to this 'Add...' button. The message text area contains: 'FROM CHERRY: THE SYSTEM IS GOING DOWN AT 1 PM. PLEASE PLUG OFF'.



## 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



## Run Pre-Configured 5250 Sessions



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

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

The screenshot shows the 'iSeries Access for Web' interface for user 'CUNNER'. The main content area displays a table titled 'Configured Sessions' with the following data:

Session	Server	Action	Shortcut	Created By	Access
Shortcut to Bony System. RCHLAND.IBM.COM	5250	Start	Yes	jdk	cnner

Below the table, there are several links: 'Configure new session', 'Configure a new session', 'Shortcuts to sessions you configured', 'Display a list of shortcuts to sessions you configured. Shortcuts can be deleted from this list.', 'Active sessions', 'Work with your active sessions.', 'Start session', 'Start a new session.', 'My macros', 'Work with your macros.', 'My keywords', 'Work with your keywords.', and '5250 user interface help', 'View help for working with configured sessions.'

The left navigation menu includes: My Home Page, Print, Messages, Jobs, 5250, Active sessions, Configured sessions, Start session, Database, Files, Command, Download, Customize, Other, and Related Links (iSeries Access for Web, iSeries Access, iSeries Navigator, WebSphere Host, Publisher, iSeries Information Center, iSeries Resource Library).

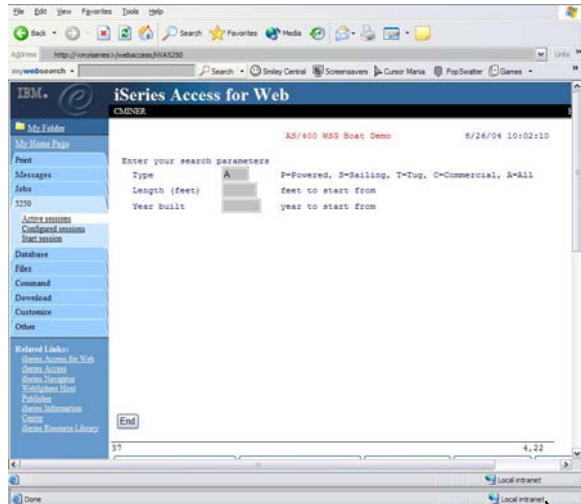


## User can run 5250 application



User is placed in this application

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



Let's see the steps to create this...



## How you can set this up...



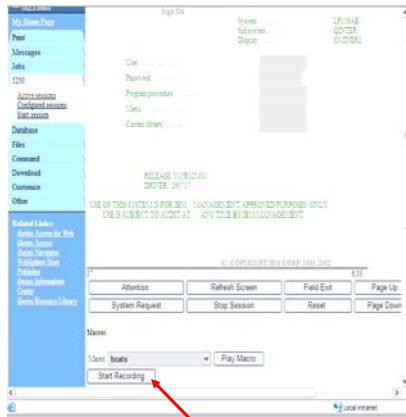
- Record a macro
  - Start Session and get to OS/400 sign-on screen
  - Go to bottom of screen and start macro record
  - Continue recording macro until you have reached spot you want users to come into (ie, OS/400 Main Menu, your own menu, a particular application...)
  - Go down to bottom of screen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

Step 1

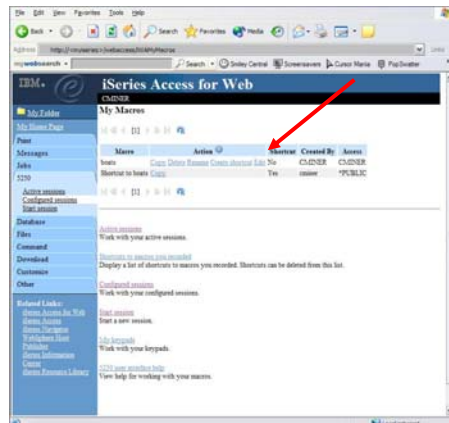




## Record and Edit Your Macro



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



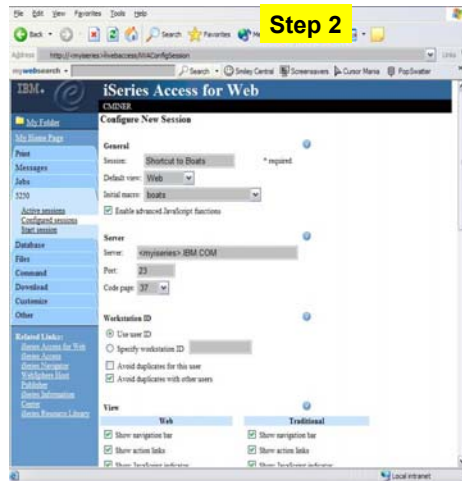
Then **edit** the macro you just created



## Configure a session with new macro



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



# IBM Create Shortcut for your Users

@server®

- Select 'Configured Sessions' from Navigation pane
- Then select 'Create Shortcut'
- Set up who can use this shortcut under 'access'
- You can then go in...

Step 3

The screenshot shows the 'Create Shortcut' dialog box in the iSeries Access for Web interface. The 'Shortcut name' is 'Shortcut to Boat Information' and the 'Access' is 'BOAT.DOUGE'. Below the dialog is a table of configured sessions.

Session	Server	Action	Shortcut	Created By	Access
BOATS for *PUBLIC LP116AB.RCHLAND.IBM.COM	LP116AB.RCHLAND.IBM.COM	Start Copy Delete Rename	No	CM1NER	CM1NER
Shortcut to Boats	LP116AB.RCHLAND.IBM.COM	Start	Yes	jak	cm1ner

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

# IBM Policies – customize 5250 access

@server®

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

Step 4

The screenshot shows the 'Policies - 5250' configuration screen. It lists various policies for the 5250 terminal emulation, such as '5250 access', '5250 tab', 'Start non-configured sessions', etc., with columns for 'Derived From', 'Action', and 'Setting'.

# IBM Database - Run Requests



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

Request	Description	Action	Shortcut	Created By	Access
Accounting Programs		Run	No	cminer	cminer
Fill out timecard		Run	No	cminer	cminer
Shortcut4		Run	Yes	yesh	*PUBLIC
Shortcut5		Run	Yes	yesh	*PUBLIC
Shortcut6		Run	Yes	yesh	*PUBLIC
Shortcut to Accounting Programs		Run	Yes	cminer	accounting
Shortcut to Fill out timecard		Run	Yes	cminer	warehouse

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# IBM Dynamic Queries – V5R3



SQL Wizard now supports **dynamic database queries**

- Contains the ability to generate SQL statement with markers for conditional values
  - For example, an Administrator might build a query to retrieve some particular customer information, then when the end user runs the query a prompt would appear for user to key in 'customer name', 'customer number', etc.

EMPNO	LASTNAME	FIRSTNAME	WORKDEPT	PHONENO	HIREDATE	SEX	BIRTHDATE	JOB	EDLE
000010	HAAS	CHRISTINE	A00	3978	11/65	F	11/01	PRES	

Request	Description	Action	Shortcut	By	Access
Accounting Programs		Run Copy Delete Restore Create	No	cminer	cminer
Employee Output	History	Run Copy Delete Restore Create	No	cminer	cminer
Fill out timecard		Run Copy Delete Restore Create	No	cminer	cminer
Find Employee Record		Run Copy Delete Restore Create	No	cminer	cminer
Find Employee Record		Run Copy Delete	Yes	cminer	*PUBLIC

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## Set up a 'Filtered View' of IFS



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

Actions I can perform:

- **Subdirectories**
  - Create new ones
  - Rename
  - Work with
- **Files**
  - Copy
  - Rename
  - Delete
  - Mail
  - Work with



## Set Policy to Default to Specific Directory in IFS



Set a 'Default Directory' for:

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

Went into **CMINER** profile, and set policy to filter IFS to 'CMINER1' folder...



New in V5R3

<http://<myseries>/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



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

# IBM Example of how you might use this function



## Scenario

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

## Solution

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

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# IBM Create Tailored Install Image of ODBC driver



**Create Tailored Installation Image**

You can create your own tailored installation image so that your users can install only those components you want them to install. By default, all components will be included in the installation image. Simply deselect the components you want to exclude. If the Secure Sockets Layer (SSL) support is available, the SSL support can be included in the tailored image.

**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

**Component Selection**

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

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

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

Buttons: Help, < Back, Next >, Cancel

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# IBM Use the 'Create Download' feature



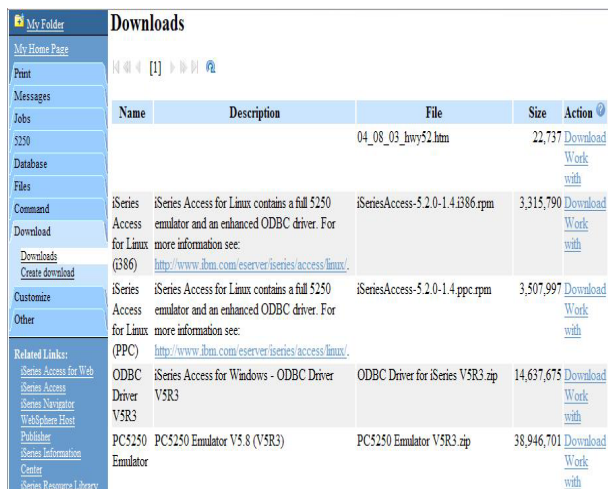
- Use Create Download to make a file available for distribution
- The file is copied to the server on which iSeries Access for Web is running
- After the download is created, it is added to the Downloads list.



# IBM 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

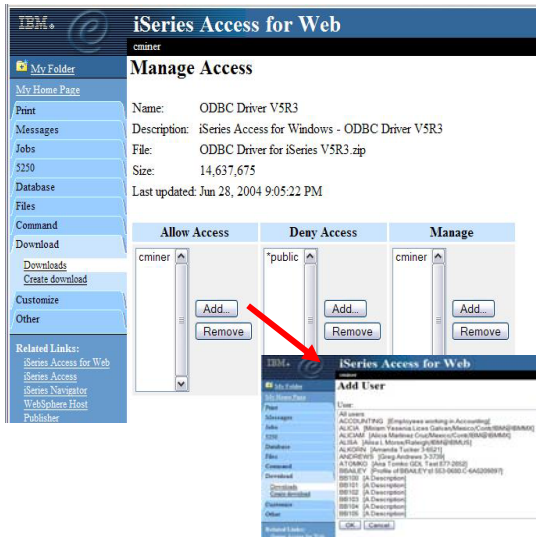


- **Edit Name and Description**
- **Update File**
  - The new file will replace the current file that is available for downloading.
  - The current file will no longer be available to download.
- **Delete**
- **Manage Access**
  - This action enables you to either give or deny access to users.



**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**







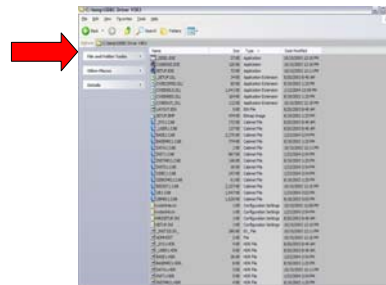
## Download and Install ODBC on Desktop



- 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.

Name	Description	File	Size	Action
04_08_01_berry52.htm			22,737	Download Web
Series Access for Linux (i386)	Series Access for Linux contains a full 5250 emulator and an enhanced ODBC driver. For more information see: <a href="http://www.ibm.com/server/series-access.html">http://www.ibm.com/server/series-access.html</a>	SeriesAccess-5.2.0-1.4.i386.rpm	3,315,790	Download Web
Series Access for Linux (PPC)	Series Access for Linux contains a full 5250 emulator and an enhanced ODBC driver. For more information see: <a href="http://www.ibm.com/server/series-access.html">http://www.ibm.com/server/series-access.html</a>	SeriesAccess-5.2.0-1.4.ppc.rpm	3,507,997	Download Web
ODBC Driver V5R3	Series Access for Windows - ODBC Driver V5R3	ODBC Driver for Series V5R3.zip	14,637,675	Download Web

- Here I had used **PKZIP for Windows**, so I have to go into the directory and start the install by pressing on **SETUP.EXE**



## Different Ways to Rollout Access for Web



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



# IBM Home Page entry point



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

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



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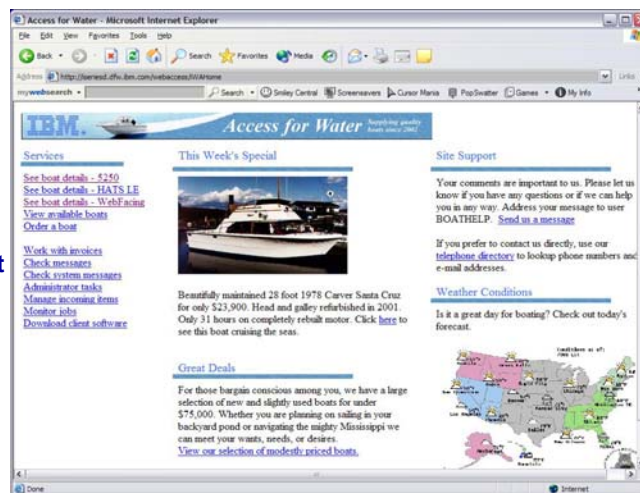
**iSeries. mySeries.**

# IBM Customized Home Page



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

- Customized view of the Home Page
- Could be used as 'entry' point to iSeries



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**Customized user 'window' to iSeries**

**Window is associated with OS/400 profiles**

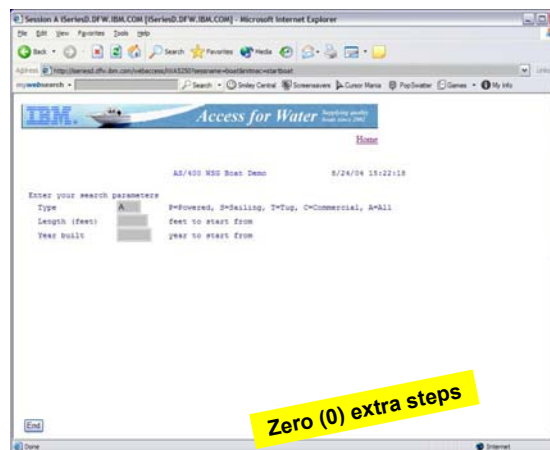
- An administrator can create multiple different 'windows' based on user profile / group profile for different types of users.
- Can tightly control what functions a user can perform on your iSeries
- Tie in with other web applications (such as WebFacing, HATS, HATS LE) from here as well
- Link to other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



•One view and set of functions for the Accounting department

•Another view and set of functions for the Warehouse staff

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



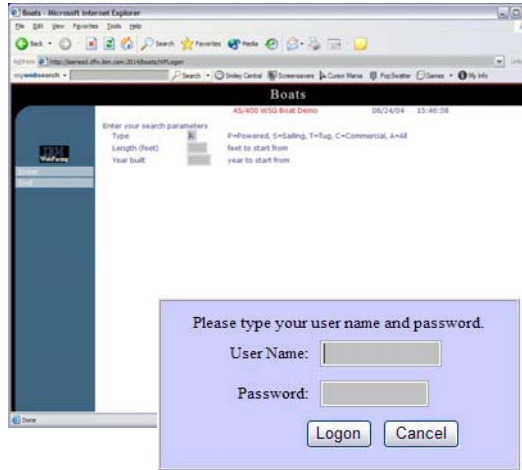


## Using WebFacing version of application



### Easy to link to other URLs

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



One (1) extra step

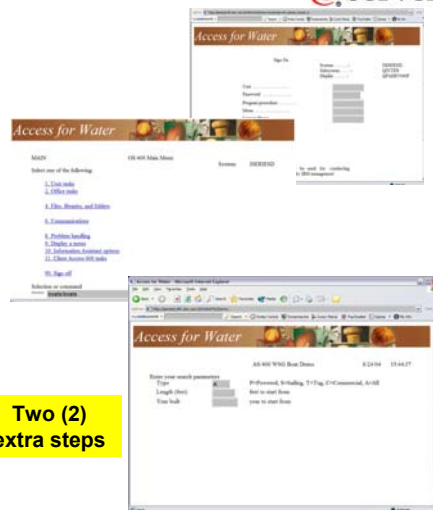


## Using HATS LE 5250



### Easy to link to other web applications

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



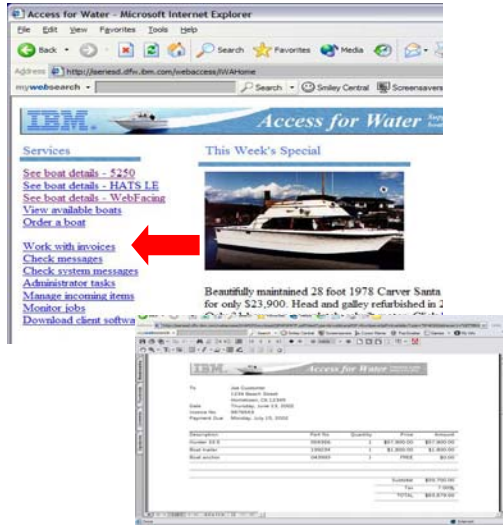
Two (2) extra steps



Task Oriented – not function oriented...



- Selected 'work with invoices'
- Requested to 'View as PDF' output
  - Converted to PDF on the fly by Access for Web
  - Can now print it to any network printer
- Could also request to 'email PDF output'
  - Then would get PDF document attached to an email note; all I would need to do is address it.



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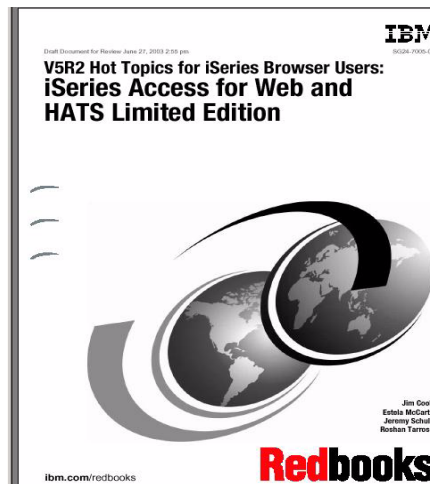


Redbook



Redbook...  
SG24-7005-00

- Download it from iSeries Access Web page at
- [www.ibm.com/eserver/iseries/access/web](http://www.ibm.com/eserver/iseries/access/web)
- Redbook documents how demo web page was built



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## Different Ways to Rollout Access for Web

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- Use 'out of the box'
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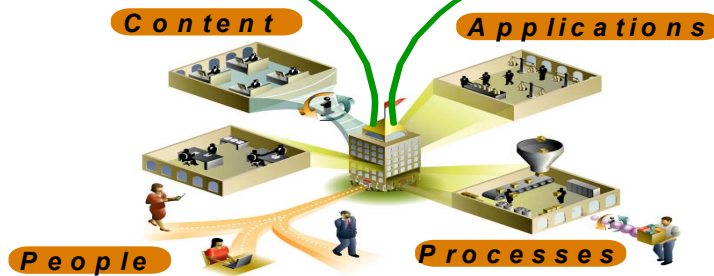
**iSeries. mySeries.**



## IBM Portal Solutions

@server<sup>®</sup>

*The next wave in technology*



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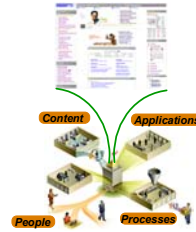


## WebSphere Portal Offerings for i5/iSeries



- **Flexible portal licensing (per-user OR per-CPU pricing)**
  - Both per-user & per-CPU pricing can be used on Intranets, Extranets & Internet
  - i5 5xx and iSeries Enterprise Edition for i825/870/890 includes some user licenses of Portal
- **Simplified portal installation & set-up with wizards**
  - Portal image included in Virtual Media Image (VMI) for easy installation
  - Easy-to-use wizard gives you a production-ready portal server
- **New integrated portal function**
  - Document management - store, categorize, search, subscribe, review and approve
  - Productivity components – view/edit documents, spread sheets and presentations
  - Collaboration Center in WebSphere Portal - Express Plus
- **Simplified portal administration**
  - Intuitive interface and fewer steps required for frequently used functions such as adding a user and assigning access privileges

**Gartner Group**  
 "Portal, the most overused word in IT"  
 Gene Pifer - Gartner



Available for iSeries

•January 2004

•WebSphere Portal – Express for Multiplatforms V5.02

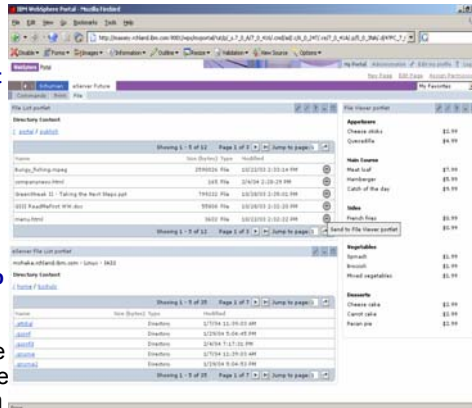
•WebSphere Portal – Express Plus for Multiplatforms V5.02



## Access for Web supports IBM WebSphere Portal



- **Support for WebSphere Portal Express and Express Plus**
  - The V5R3 Access for Web product (with software fixes) runs as a portlet on both versions of WebSphere Portal.
- **Most functions can run as portlets**
  - 5250 emulation runs in a portlet window
  - Other functions of Access for Web can individually be assigned to a portlet window as well.
    - For example, one might have the 'Database' function in one window and 'Print' function in another window



Simple Content Publishing



## Try out Access for Web for yourself!



Access the following web site through your browser:

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

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



- User ID of **WUSER (or WACUST)**
- Password of **DEMO2PWD**

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

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



- User ID of **BOATADMIN**
- Password of **DEMO2PWD**

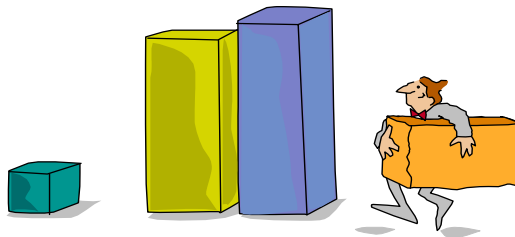
This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session -- or they could have used WebFacing or HATS LE to run the application. Click on all 3 links and see the same application in different views. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc..

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## Packaging and Ordering



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## iSeries Access Family Packaging



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



- OS/400 V5R1
- EOM was 12/2003
- EOS was extended from 5/31/2004 to 9/30/2005

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## Summary



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## Who will benefit from Access for Web

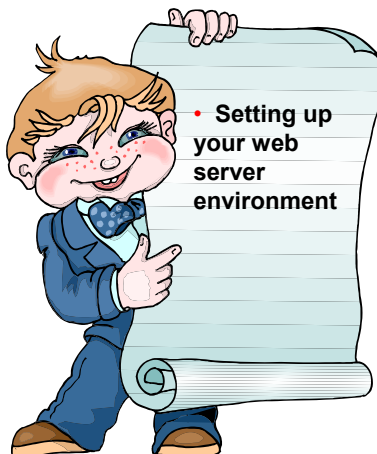


- Any iSeries customer -- with any hardware model - can quickly get started working in a Web environment
  - If your system is not capable of running WAS, you can easily install the ASF Tomcat web application server. ASF Tomcat runs on hardware with 70 CPW and 256 MB memory
- Any iSeries customer --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

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



## Appendix A.





## Appendix B. Goodies in 'Other Tab'



**Other**

Perform other tasks on your iSeries server with iSeries Access for Web.

**Bookmarks**

- Export bookmarks for iSeries Access for Web.

**Change password**

- Change your password on your iSeries server.

**Connection pool status**

- Display summary of iSeries Access for Web connections to the iSeries Access servers.

**Trace**

- Change trace settings for iSeries Access for Web.

**About**

- Display information about iSeries Access for Web.



## Good information for load balancing your iSeries eServer

### Connection Pool Status

- How many Access for Web users have been connected?
- How many on now?
- Who are they?

**Connection Pool Status**

Connection Summary

Setting	Value	Description
Active connections	0	Total number of active connections for all users.
Available connections	2	Total number of available connections for all users.
Total connections	2	Total number of active and available connections for all users.
Total users	3	Total number of users that have connected since iSeries Access for Web started.
Active users	1	Total number of users that have active or available connections.

Connection Details

System	User	Active	Available	Action
MYSERIE	RCHLAND.IBM.COM	CMYNER	0	2 Clear

**Settings - Connection Pool**

Setting	Value	Description
Cleanup interval	5 minutes	Specify how often to clean up connections.
Connections per user	No maximum	Specify the maximum number of concurrent connections allowed per user.
Maximum inactivity	1 hour	Specify the maximum time a connection can be inactive before it is cleaned up.
Maximum lifetime	24 hours	Specify the maximum time a connection can exist before it is cleaned up.
Maximum use count	No maximum	Specify the maximum number of times a connection can be used before it is cleaned up.
Maximum use time	No maximum	Specify the maximum time a connection can be active before it is cleaned up.

Buttons: Save, Cancel, Apply, Shipped Defaults

### Settings - Connection Pool

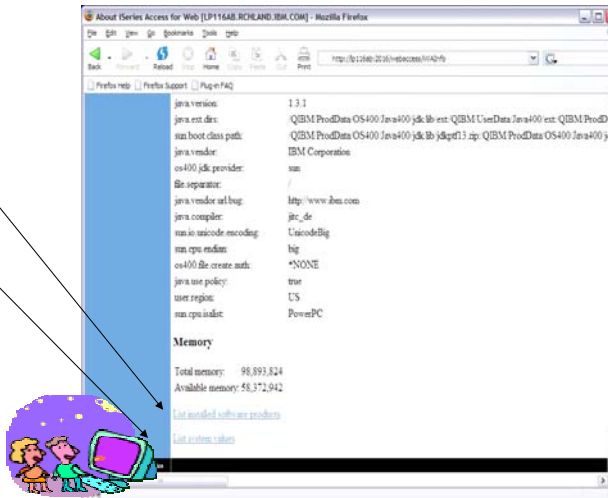
- Any settings you make apply to all users
- Set number of sessions a user can start
- How much inactivity before we clean up a session

- Product information about Access for Web
- About end user connection
  - Request information
  - Request headers
  - iSeries Access for Web information
- iSeries Access for Web properties
  - IBM Toolbox for Java properties
  - Connection pool settings
- File Content Type Map
- System Properties



And more...

- Memory
- List installed software products on iSeries
  - List Software fixes installed
- List system values
  - Allocation system values
  - Date/time
  - Security system values...





## On the 'About' link under Other... (continued)



Find out everything about the **Software** products on your iSeries

- **Software Products**
  - You can see all software products installed on the iSeries. Click on the 'Product' link and get to
- **Software Product Properties**
  - From there click on 'List Software Fixes'
- **Software Product Fixes**
  - Can see all software fixes applied, including the following on each fix:
    - General Information
    - Symptoms
    - Cover Letter

The screenshot shows the 'Software Products' page in iSeries Access for Web. It features a table with columns for Product, Optima, Release, Status, and Description. A sidebar on the left contains navigation links like Messages, Jobs, Database, Files, Command, Download, Customise, and Other. A 'My Folder' pane is visible on the right, and a 'Software Product Properties' window is open, displaying details for Product ID 5722N02, including Description, Release, Option, Frame ID, Feature type, Load error, Load state, Primary language, Registration type, Registration value, Symbolic load state, Requirements met, and Minimum target release.

The screenshot shows the 'Software Product Fixes' page in iSeries Access for Web. It displays a table with columns for ID, Product, Optima, Release, Target Release, Action Required, Action Pending, and On Order. The table lists various fixes for product 5722N02, including those for Messages, Jobs, Database, Files, Command, Download, Customise, and Other.

ID	Product	Optima	Release	Target Release	Action Required	Action Pending	On Order
5115201	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115202	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115203	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115204	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115205	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115206	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115207	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115208	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115209	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115210	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115211	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115212	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115213	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115214	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115215	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115216	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115217	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115218	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115219	5722N02	0000	V5R3M0	V5R1M0	0	no	no
5115220	5722N02	0000	V5R3M0	V5R1M0	0	no	no



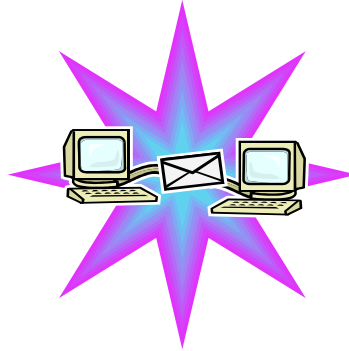
## Appendix C. Integration with your mail server





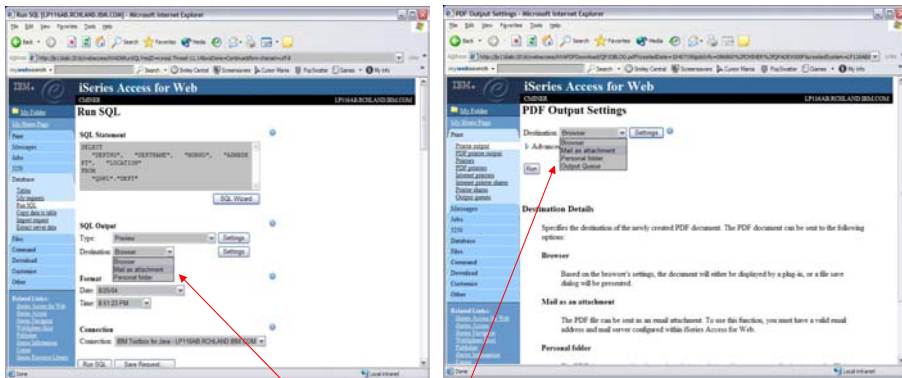
## Integrates with desktop user's email server

- Can send results to a recipient with status sent to sender for:
  - A database (SQL) action
  - CL command
  - File command
  - PDF view of print information
- Sent as an attachment to 'email'
- A one-step way to distribute information across the network, and particularly useful when recipient is:
  - Not an iSeries user
  - Does not have access to a web browser



## Users can easily email results

'Mail' option displays for function of Access for Web that supports 'Mail'



Database request

Mail output

Working with PDF printer output



## How to set up Access for Web to use e-mail



### 1. Do nothing

- If you currently use OS/400 System Distribution Directory (SDD) to store your e-mail addresses, then do nothing to Access for Web. If no SMTP address has been provided, Access for Web will look in SDD for e-mail address

### 2. Use V5R3 'Import Policy Settings' to provide all e-mail addresses to Access for Web

### 3. Use Access for Web 'Customize' function to set up SMTP mail server address and each user's e-mail address

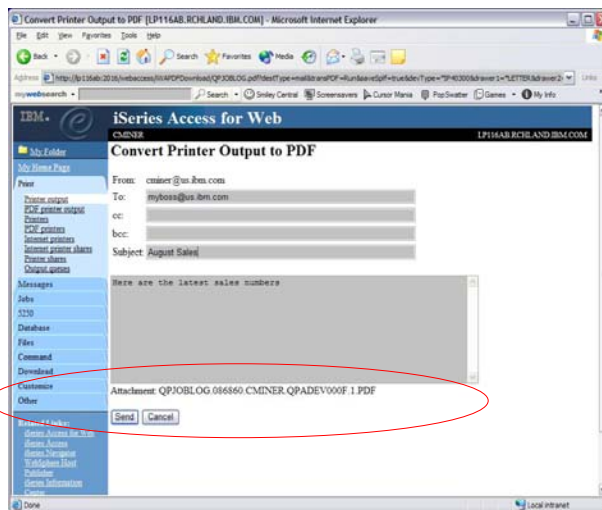
- Use Policies (\*PUBLIC) to set SMTP mail server address for everyone
- Use Policies for each user to add unique e-mail address, or
- Let each user use Preferences to set up their own e-mail address

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## Send your e-mail



Your email address plugged in for you...

...see PDF attachment there...

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# IBM Import / Export – new in V5R3



- Administrator can use Import/Export to set up email address for all users
  - Regular email
  - Sametime
- This eliminates need for each profile to be individually updated



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# IBM You must 'Customize' to use Email function

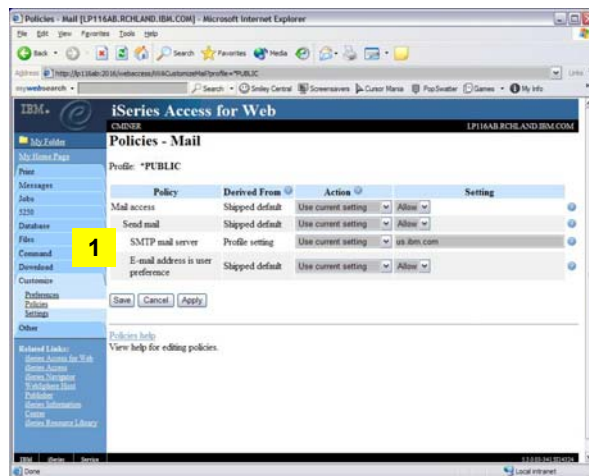


You need to identify your SMTP Server address

- Use \*PUBLIC to set up SMTP Server address
  - You probably have same SMTP server address for all users

Note:

- If the SMTP server address is blank, Access for Web query the system directory (SDD) for email config info for your profile



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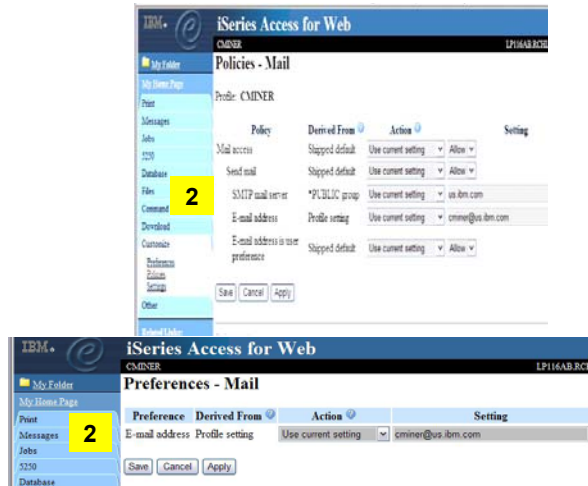


# IBM All Users' Email addresses must be set up



e-Mail address must be set for each user

- Administrator could go into each user's profile and set email address
- Each user could do this themselves through 'Preferences'



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# IBM Integration with Lotus Sametime – V5R3



Receive Sametime messages:

- When something is added to 'My Folder' -- this could be someone has put something new in my folder or a database or CL command request that I previously submitted has completed



You must have a Sametime Server installed in your network and accessible from your iSeries.

Sametime is an add-on product to Lotus Notes.

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# IBM Setup needed to integrate use of Sametime



1. Use **Settings** to globally set up Sametime server address and port number



2. Use **Policies** to individually include each user's Sametime address or



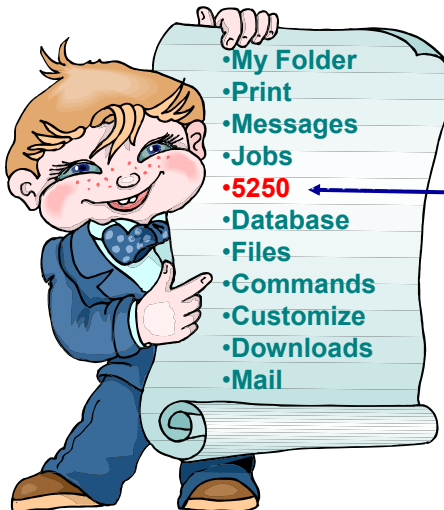
2. Let each user use **Preferences** to set up their own Sametime address



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# IBM Appendix D. More on 5250



- This is the only function in the iSeries Access for Web product that requires the 'interactive feature'.
- All other functions in iSeries Access for Web run as 'batch' tasks on the iSeries

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# IBM 5250 Emulation Capabilities



- Page up, page down, and function keys supported on:
  - Microsoft Internet Explorer (version 5.0 and later), Netscape (version 6.0 and later), Mozilla
- Can Assign unique device ID
- Screen auto-switches to 132 columns as needed
- Cursor positioning
  - Ability to place cursor at non-input fields for cursor sensitive applications
- Macros
- Keypads
- Can 'bookmark' your favorite entry point into iSeries Access for Web.
  - ie, <http://myiseries:port/webaccess/iWA5250>, would bring you right to 5250 emulation screen

# IBM Reconnect to an Active Session



- Sessions listed here are sessions I did not 'sign off' on OS/400
- They could show up here even if iSeries had released them. If a user attempts to Reconnect, they may get a message that the session has been closed and they would have to start a new 5250 session

The screenshot shows the 'iSeries Access for Web' interface with a table of 'Active Sessions'. The table has columns for Server, Session, Started, Last Accessed, View, and Action. The Action column contains links for 'Reconnect', 'Stop', and 'Edit'. A green arrow points to the 'Share Session' link in the first row.

Server	Session	Started	Last Accessed	View	Action
LP116AB.RCHLAND.IBM.COM E		8/26/04 3:17:17 PM UTC	8/26/04 3:17:18 PM UTC	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>
LP116AB.RCHLAND.IBM.COM D		8/26/04 3:16:36 PM UTC	8/26/04 3:16:37 PM UTC	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>
LP116AB.RCHLAND.IBM.COM C		8/26/04 3:02:00 PM UTC	8/26/04 3:02:11 PM UTC	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>
LP116AB.RCHLAND.IBM.COM B		8/25/04 9:20:03 PM UTC	8/26/04 2:05:18 PM UTC	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>
LP116AB.RCHLAND.IBM.COM A		8/25/04 9:19:50 PM UTC	8/25/04 9:19:53 PM UTC	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>

•Share Session -- useful for Help Desk, etc



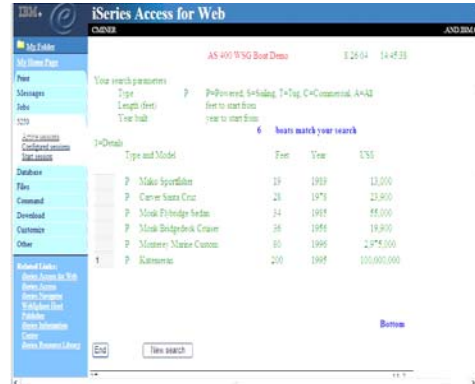


## Reconnect to an Active Session

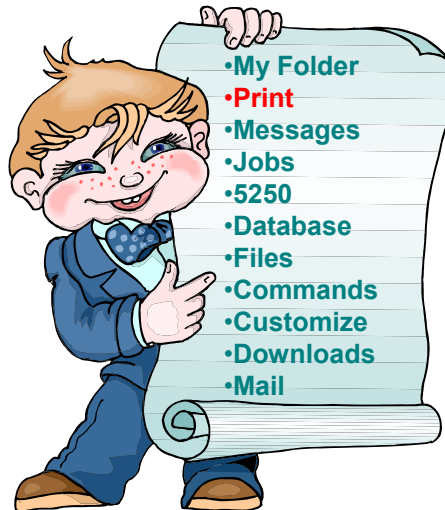


- If I were in the middle of a 5250 application, then went somewhere else in my browser
  - Work with printer output, go to some other web page, etc)
  - But did not sign off my application...
- I could come right back into my application without needing to sign onto OS/400 again
- If could shut down my PC, go home, start up my home PC, log into my iSeries, I could pick right up on same page

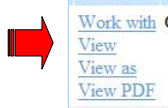
View Action ?  
Web [Reconnect](#) [Stop](#) [Edit](#)  
[Share Session](#)



## Appendix E. More on Print



• Use the **View** action to view the printer output.



• Use the **View As** action to preview the SCS and AFP printer output in PNG, TIFF, PCL or AFP formats.

**Convert to PDF Options**

- View in my browser, can then print to any printer I can reach
- Mail as attachment
- Personal Folder
- Output Queue

# IBM Printer Output – Work With option

@server®

Action  
[Work with](#)  
[View](#)  
[View as](#)  
[View PDF](#)

- Can **Hold**, **Print Next**, **Delete**
- Can easily and quickly **move** printer output to:
  - Another printer
  - Another output queue
  - Another server
  - A database file
- Can **change** printer output attributes

The screenshot shows the 'Work With Printer Output' page in iSeries Access for Web. The page displays job details for 'QPJOBLOG' and provides three buttons: 'Hold', 'Print Next', and 'Delete'. Below these buttons is an 'Action' menu with several options: 'Move printer output to another printer', 'Move printer output to another output queue', 'Send printer output to another server (SNDTCPSPLF)', 'Change printer output attributes (CHGSPPLFA)', and 'Copy printer output to database file (CPYSPLF)'. A red arrow points to the 'Action' menu, and another red arrow points to the 'Delete' button.

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# IBM Move Printer Output to Another Printer

@server®

Example of 'Move Printer Output to Another Printer'

- Can move to any Printer on system
  - Printer must have previously been set up
  - All Printers displayed in Target Printer
- Will be converted to PDF on-the-fly if moving to PDF printer\*
  - Must have InfoPrint Server if sending to PDF printer

The screenshot shows the 'Move Printer Output to Another Printer' dialog box. It displays the same job details as the previous screenshot. Below the job details, there is a 'Target Printer' section with a dropdown menu showing '#JRHPEF'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

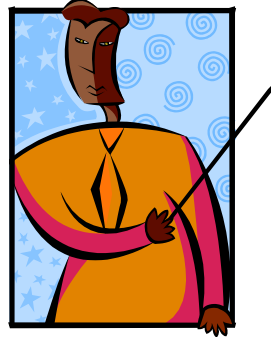
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e<sup>server</sup>

## What is *IBM InfoPrint Server*?



[http://www.printers.ibm.com/internet/wwsites.nsf/vwwebpublished/ipserverhome\\_i\\_ww](http://www.printers.ibm.com/internet/wwsites.nsf/vwwebpublished/ipserverhome_i_ww)

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## IBM InfoPrint Server – Product No. 5722-IP1

e<sup>server</sup>

- Go beyond 'print and distribute.' Go to the next level of automation to manage and present business information electronically.
- Receive more value from your IBM iSeries investment. Extend core iSeries output capabilities that help enable you to reengineer business processes to improve service levels, decrease transaction costs, reduce paper flow and enhance competitive advantage with speed and flexibility.
- With Infoprint® Server, you can transform any standard iSeries output format and produce electronic output in Advanced Function Presentation (AFP™) or PDF.
- This capability allows you to manage and distribute information via e-mail, Web or local printing.
- And, you gain iSeries management of network output.
- Infoprint Server provides transforms for PCL, PostScript®, GIF, TIFF, JPEG and PDF data into AFP
- So you can bring these documents into the iSeries for efficient and cost-effective handling.



Complimentary trial

Activate your 70-day evaluation of Infoprint Server for iSeries today. Unlock the trial from the OS/400® Version 5 release set of CDs.

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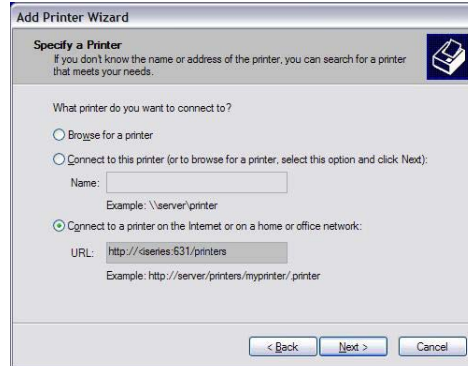




# IBM Internet Printers

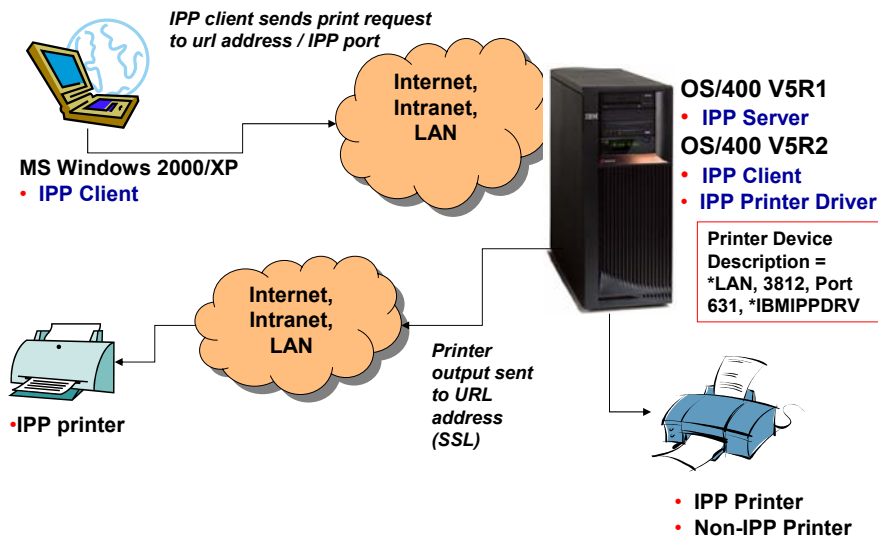


- Use the **Internet Printing Protocol (IPP)**
- **Secure printing over Secure Sockets Layer (SSL)**
  - Authentication options
  - Easy to configure
- **Windows 2000/XP contains a client that can print over the Internet using the Internet Printing Protocol (IPP)**
  - OS/400 V5R1 supports IPP-enabled printers
- **OS/400 V5R2 contains a client that enables OS/400 spool files to be sent over the Internet to IPP-enabled printers**
  - Could be a network IPP-enabled printer or a printer configured on an IPP-enabled server on the iSeries



*Allows Windows 2000/XP users to print remotely, over the Internet, to any IPP-capable printer in the network*

# IBM OS/400 Support of Internet Printer Protocol

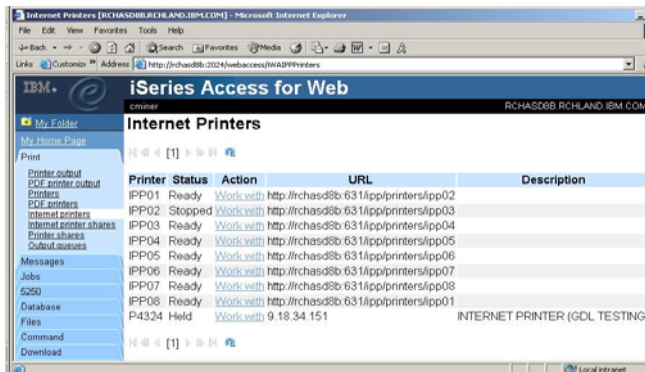


- iSeries Printer Device Programming (SC41-5713-05)
  - <http://publib.boulder.ibm.com/iseries/v5r2/ic2924/books/c4157135.pdf>
- Printing Documents Over The Internet Using The Internet Printing Protocol
  - <http://www.printers.ibm.com/R5PSC.NSF/Web/ipservwebipp>
- Internet Printing Protocol Overview
  - <http://www.printers.ibm.com/R5PSC.NSF/Web/ippoverview>
- Internet Printing Protocol (IPP) At A Glance
  - <http://www.printers.ibm.com/R5PSC.NSF/Web/ippspotlight>
- Internet Printing Protocol, Sponsored By The PWG
  - <http://www.pwg.org/ipp/index.html>
- IPP Documents
  - <http://www.ietf.org/ids.by.wg/ipp.html>

*<http://<myseries>/webaccess/iWAIPPPrinters>*

**iSeries Access for Web user can:**

- **Hold**
- **Release**
- **Delete**
- **View jobs or output on those printers**



<http://<myiseries>/webaccess/iWAOutputQueues>

**Output Queues**

- Find appropriate output queue, click on it...
- Takes you to 'Printer Output' screen, where you can:
  - Work With
  - View
  - View PDF

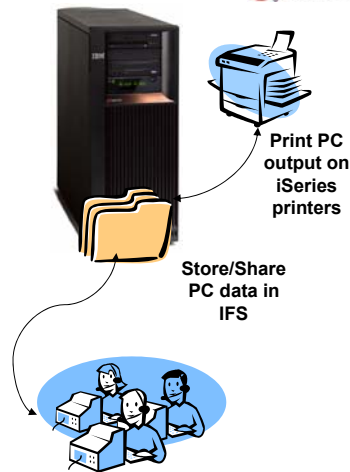
Output Queue	Status	Action	Files	Writer
\$BLDISC/FAILURE	Hold	Release	0	
\$BLDISC/INFO	Released	Hold	0	
\$BLDISC/REBPBR	Released	Hold	0	
\$BLDISC/SUCCESS	Released	Hold	0	
\$BLDISC/VERIFY	Released	Hold	0	
\$BLDSHIP/FAILURE	Released	Hold	0	
\$BLDSHIP/INFO	Released	Hold	0	
\$BLDSHIP/REBPBR	Released	Hold	0	
\$BLDSHIP/SUCCESS	Released	Hold	0	
\$BLDSHIP/VERIFY	Released	Hold	0	
\$BLDTEST/FAILURE	Released	Hold	0	
\$BLDTEST/INFO	Released	Hold	0	
\$BLDTEST/REBPBR	Released	Hold	1	
\$BLDTEST/SUCCESS	Released	Hold	8	
\$BLDTEST/VERIFY	Released	Hold	0	
\$DANNYBLD/FAILURE	Released	Hold	0	
\$DANNYBLD/INFO	Released	Hold	0	
\$DANNYBLD/REBPBR	Released	Hold	0	
\$DANNYBLD/SUCCESS	Released	Hold	0	
\$DANNYBLD/VERIFY	Released	Hold	0	
\$PPOWENB/FAILURE	Released	Hold	0	

**What is it?**

- File and print serving for CIFS clients
- Compatible with Microsoft Networking and SAMBA
- Part of the base IBM i5/OS™ Operating System
- Uses TCP/IP for connectivity

**Why Use it?**

- Network Neighborhood (My Network Places)
- Search for computers
- Connecting to a share
- Working with output queues
- Using Network DOS commands
- Encrypted password



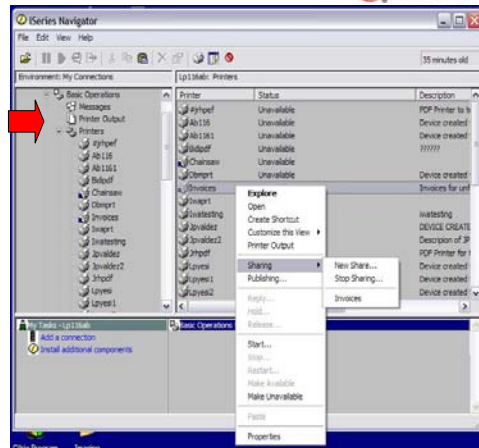
**iSeries Support for Windows Network Neighborhood**



## Setting up NetServer Print Shares



- Use **iSeries Navigator** to set up Print Shares for your users
- Click on
  - Basic Operations
  - Printers
  - Right-click on Printer to set up...



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## Printer Shares



- **All** printers defined as shared printers will show up in here.
- If user also has adequate '**object level authority**' they could work with printers and printer output from here

Share	Output Queue	Printer Driver	Spooled File Data Type	Users	Description
CAMINERSHARE	QUSRSYS:WPAPRINT		Auto-select	0	DEVICE CREATED FOR LP116AB
CHAINSAW	QUSRSYS:CHAINSAW		Auto-select	0	Transit test
INVOICES	QUSRSYS:INVOICES		Auto-select	0	Invoices for unfilled orders
MYPRNT	MYOUTO:MYLIB	ptdesc	Advanced function printing	0	ptdesc
PRTINTER	QUSRSYS:PRTINTER		Auto-select	0	INTERNET PRINTER (GDL TEST)
PRT116ABS	QUSRSYS:PRT116AB		Auto-select	0	DEVICE CREATED FOR LP116AB
WEBSHARE	QUSRSYS:IWAAPP	Access for Web print share	Advanced function printing	0	Access for Web print share

<http://<myseries>/webaccess/iWAPrinterShares>

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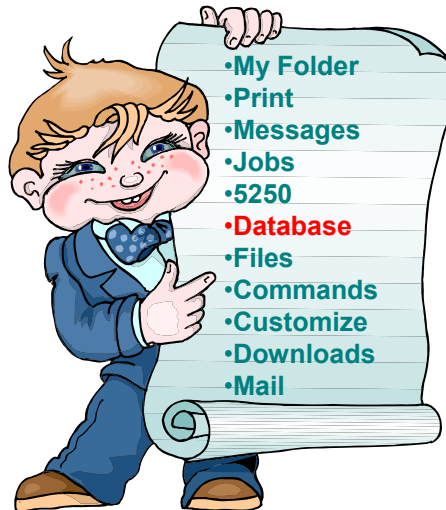
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<http://<myseries>/webaccess/iWAIPPSHares>

iSeries Access for Web

Internet Printer Shares

Share	Output Queue	URL	Printer Data Type	Printer File	Authentication Method
PRT116AB-IPP	QUSRSYS/PRT116AB	http://LP116AB:631/app/printers/PRT116AB-IPP	Auto-select	QPNPSPRTF	None
CHAINSAW	QUSRSYS/CHAINSAW	http://LP116AB:631/app/printers/CHAINSAW	Auto-select	QPNPSPRTF	None



A camp for young students recently used the iSeries Access for Web database functions to query, view, and listen to MPEG files stored as BLOBs in the iSeries database.

The students could run a query against the song titles, generate a list of songs they like, and email the database results to someone who could then cut a CD with the songs they picked.



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

Easy to use GUIs for working with the iSeries database

Can

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

Table	Description	Action
QDEVELOP.TIMEPF	TIMEIT SRC FILE DDS	Insert Update Quick view SQL Copy data to table
QDEVELOP.TIMEPF001	TIMEIT SRC FILE DDS	Insert Update Quick view SQL Copy data to table
QGPL.ACT		Insert Update Quick view SQL Copy data to table
QGPL.CL_SCHED		Insert Update Quick view SQL Copy data to table
QGPL.DEPARTMENT		Insert Update Quick view SQL Copy data to table
QGPL.DEPT		Insert Update Quick view SQL Copy data to table
QGPL.EMP		Insert Update Quick view SQL Copy data to table
QGPL.EMPACT		Insert Update Quick view SQL Copy data to table
QGPL.EMP_ACT		Insert Update Quick view



**Records to Update**

Action	EMPNO	FIRSTNAME	MIDINIT	LASTNAME	WORKDEPT	PHONENO
Update	000010	CHRISTINE	I	HAAS	A00	3978
Update	000020	MICHAEL	L	THOMPSON	B01	3476
Update	000030	SALLY	A	KWAN	C01	4738
Update	000050	JOHN	B	GEYER	E01	6789
Update	000060	IRVING	F	STERN	D11	6423
Update	000070	EVA	D	PULASKI	D21	7831
Update	000090	EILEEN	W	HENDERSON	E11	5498
Update	000100	THEODORE	Q	SPENSER	E21	0972
Update	000110	VICENZO	G	LUCCHESSI	A00	3490

**Update Record**

Column	Type	Value	Description
EMPNO	CHAR(6)	000010	
FIRSTNAME	VARCHAR(12)	CHRISTINE	
MIDINIT	CHAR(1)	I	
LASTNAME	VARCHAR(15)	HAAS	
WORKDEPT	CHAR(3)	A00	
PHONENO	CHAR(4)	3978	
HIREDATE	DATE(10)	01/01/65	
JOB	CHAR(8)	PRES	
EDLEVEL	SMALLINT(5,0)	18	
SEX	CHAR(1)	F	
BIRTHDATE	DATE(10)	01/01/01	
SALARY	DECIMAL(9,2)	52750.00	
BONUS	DECIMAL(9,2)	1000.00	
COMM	DECIMAL(9,2)	4220.00	



- Extract Server Data can be used to retrieve information about objects on the iSeries server, and then store the results in a database table
  - General object information can be retrieved for any iSeries object type.
  - Object specific information can also be retrieved for the following object types:
    - Directory entries
    - Messages
    - Software fixes
    - Software products
    - System pool
    - User profiles
- You could easily build a query:
  - To find out what users have used more than 100 MB of storage in the IFS
  - Or you might want to know what users have had more than 2 invalid sign-on attempts in the past three months.
- This very powerful capability lets you look at your iSeries information in any manner that is of importance to you.





# Work with 'Extract Server Data' function



Many things you can look at on OS/400

- New in V5R3 version

**Extract Server Object Data**

Error: Table name must be specified.

**Object Data to Extract**

Objects: User profiles  
Directory entries  
Messages  
Software fixes

**Table to**

Table: U  
Software fixes - APAR  
Software fixes - requisite fixes  
 Replic  
Software fixes - symptom strings  
Software products  
System pool

**Extract:**  
User profiles

**Output:**  
System objects - all  
System object - alert table  
System object - authorization list  
System object - block special file  
System object - binding directory  
System object - configuration list  
System object - character special file  
System object - chart format  
System object - C400 locale description  
System object - class  
System object - command

**Object Data to Extract Details**

Select the type of object data that you wish to extract. The data will be copied to

**Extract Server Object Data**

Select which columns to include. If no columns are selected, all columns are included.

Columns	Type	Description
<input type="checkbox"/> AccountingCode	char(15)	Accounting code
<input type="checkbox"/> AssistanceLevel	char(10)	Assistance level
<input type="checkbox"/> AtmPgm	char(128)	Attention key handling program
<input type="checkbox"/> CCSID	integer	Character code set ID
<input type="checkbox"/> CharIDControl	char(10)	Character identifier control
<input type="checkbox"/> CountryID	char(3)	Country or Region ID
<input type="checkbox"/> CurrentLib	char(10)	Current library
<input type="checkbox"/> PasswordExpire	integer	Days to password expiration
<input type="checkbox"/> Description	char(50)	Descriptive text
<input type="checkbox"/> DisplaySignOnInfo	char(3)	Display signon information
<input type="checkbox"/> GroupAuthority	char(3)	Group authority
<input type="checkbox"/> GroupAuthorityType	char(3)	Group authority type
<input type="checkbox"/> GroupID	bigint	Group ID
<input type="checkbox"/> GroupProfile	char(10)	Group profile
<input type="checkbox"/> HighestSchedulePriority	integer	Highest scheduling priority
<input type="checkbox"/> HomeDir	char(128)	Home directory



# Appendix G. Integrated File System (IFS)

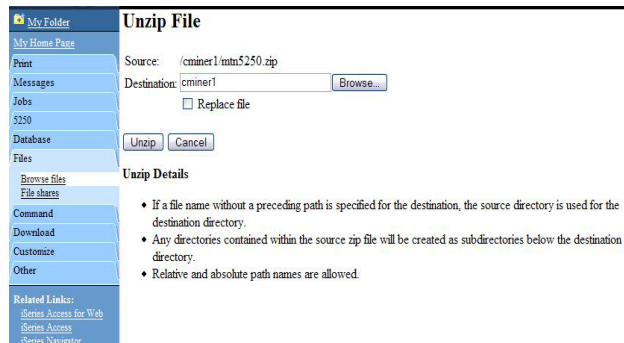




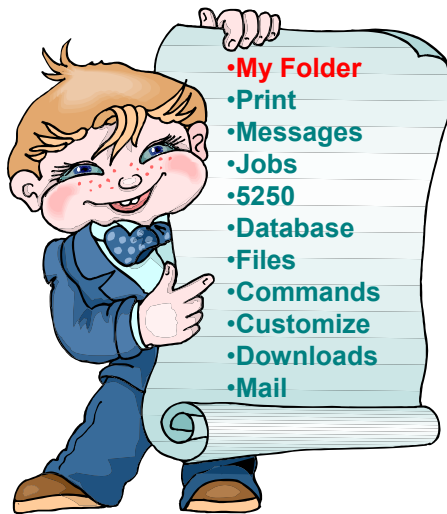
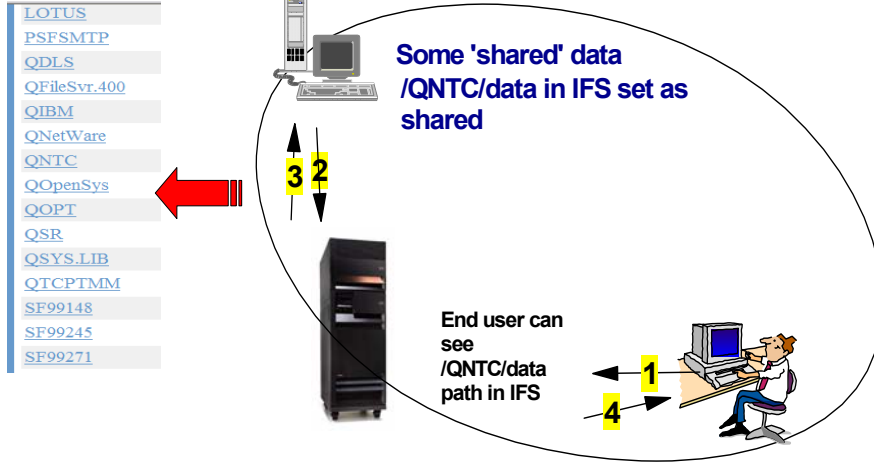
- Working with PC files stored in IFS:
  - View data in your browser. For example, look at a Microsoft Word document .
  - Click on file and then save it on your PC
  - You can then work with file using appropriate PC application then copy it back to IFS with Access for Web
- Working with PC directories on your PC:
  - You can create a folder (subdirectory) on IFS, but you can only copy files (not folders) into the IFS using Access for Web
  - So first zip up your PC directory, upload the zip file, and use Access for Web unzip capability to unzip the directory
  - You can then work with individual PC files as above

- Use a desktop zip program to zip up a PC directory
- Use Access for Web to:
  - Upload the zipped directory
  - 'Unzip File' to separate files in new subdirectory

This is beneficial in an internet environment as zipping compresses data and sends less across the line.



- Use the QNTC capability within NetServer to get at information on other PC servers in your network



Every iSeries Access for Web user has a Personal Folder

- Unless you take it away through Policies

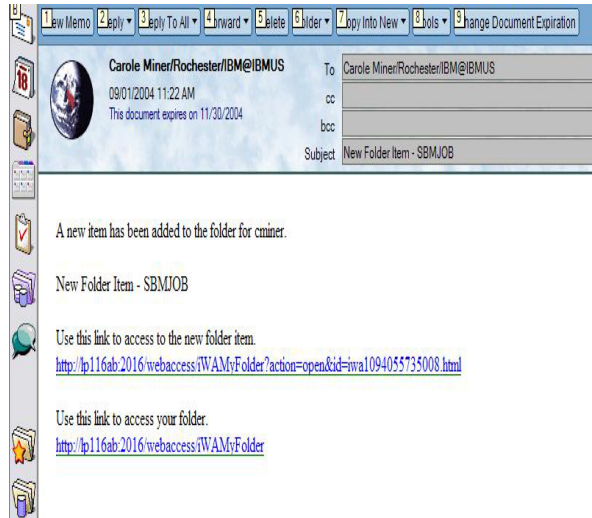


## My Folder integrated with email and Sametime

• Here is email notification that something new is in My Folder

• Could also received a Sametime instant message

*Simply set up a Policy setting*



The screenshot shows an email client interface. At the top, there is a menu bar with options: 1 New Memo, 2 Reply, 3 Reply To All, 4 Forward, 5 Delete, 6 Folder, 7 Copy Into New, 8 Hold, 9 Change Document Expiration. Below the menu bar, there is an email header for Carole Miner/Rochester/IBM@IBMUS, dated 09/01/2004 11:22 AM, with a note that the document expires on 11/30/2004. The email body contains a notification: "A new item has been added to the folder for cminer. New Folder Item - SBMJOB". Below this, there are two links: "Use this link to access to the new folder item." with URL <http://p116ah.2016.webaccess.iWAMyFolder?action=open&id=iwa1094055735008.html> and "Use this link to access your folder." with URL <http://p116ah.2016.webaccess.iWAMyFolder>.

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