

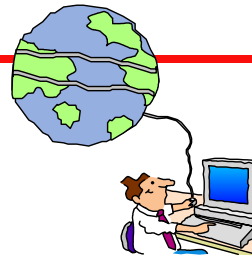
# iSeries. mySeries.

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

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**iSeries. mySeries.**



- 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:

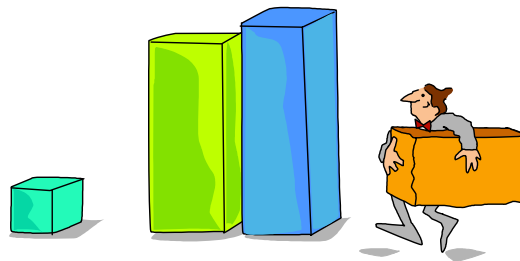
The iSeries Access Family has expanded its offering to include a browser-based option called 'iSeries Access for Web'.



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?
- How to connect
- Customizing, controlling access to functions
- email support
- Integration with Sametime
- 5250
- Print
- IFS
- Database
- My Folder
- Commands
- Messages
- Jobs
- Download
- Other
- Build your own 'front page' to iSeries
- Support for IBM WebSphere Portal products



 <b>V5R3 5722-XW1 iSeries Access Family</b>	 <b>V5R2 5722-XW1 iSeries Access Family</b>
<ul style="list-style-type: none"> <li>• iSeries Access for Windows, 5722-XE1, V5R3</li> </ul>	<ul style="list-style-type: none"> <li>• iSeries Access for Windows, 5722-XE1, V5R2</li> </ul>
<ul style="list-style-type: none"> <li>• iSeries Access for Web, 5722-XH2, V5R3</li> </ul>	<ul style="list-style-type: none"> <li>• iSeries Access for Web, 5722-XH2, V5R2</li> </ul>
<ul style="list-style-type: none"> <li>• iSeries Access for Wireless, 5722-XP1, V5R2</li> </ul>	<ul style="list-style-type: none"> <li>• WebSphere Host Publisher, 5724-B81, V4.0, 5724-B81, V4.01</li> </ul>
<ul style="list-style-type: none"> <li>• HATS Limited Edition V5.0, 5724-F97-01</li> </ul>	<ul style="list-style-type: none"> <li>• HATS Limited Edition V4.0 5724-D34-01 (after 6/30/2003)</li> </ul>
<ul style="list-style-type: none"> <li>• iSeries Access for Linux, 5722-XL1, V5R3</li> </ul>	
	<p>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</p>



OS/400 V5R1

- EOM was 12/2003
- EOS is 5/31/2004
- EOS is 9/30/2005

## iSeries Access for Web 5722-XH2

**On 9/5/03, V5R3 Access for Web beta version became available as a web download**

**On 1/30/04, it was refreshed and is now fully supported via IBM Support (still can be downloaded)**



web page is [www.ibm.com/eserver/iseries/access/web](http://www.ibm.com/eserver/iseries/access/web)



## What is iSeries Access for Web?



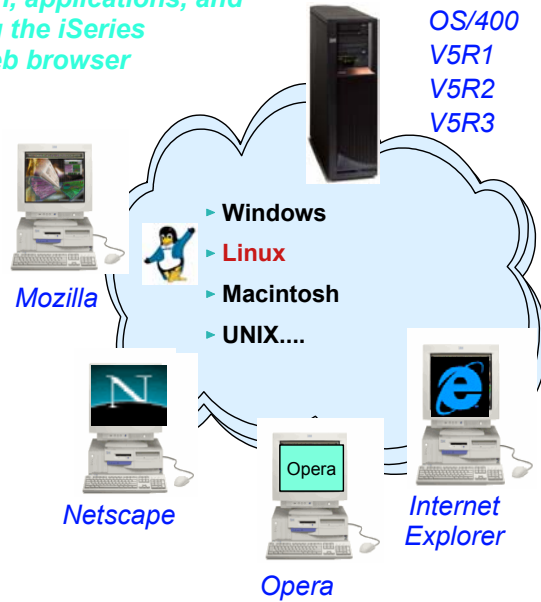
*End users can leverage business information, applications, and resources across an enterprise by extending the iSeries resources to the client desktop through a web browser*

**Provides access to iSeries through a browser**

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

**It has the following advantages:**

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



## Notes: Browsers supported



### Netscape

Version 4.7 (AIX (R) , Linux)  
Version 6.2 (Windows)

### Microsoft (R) Internet Explorer

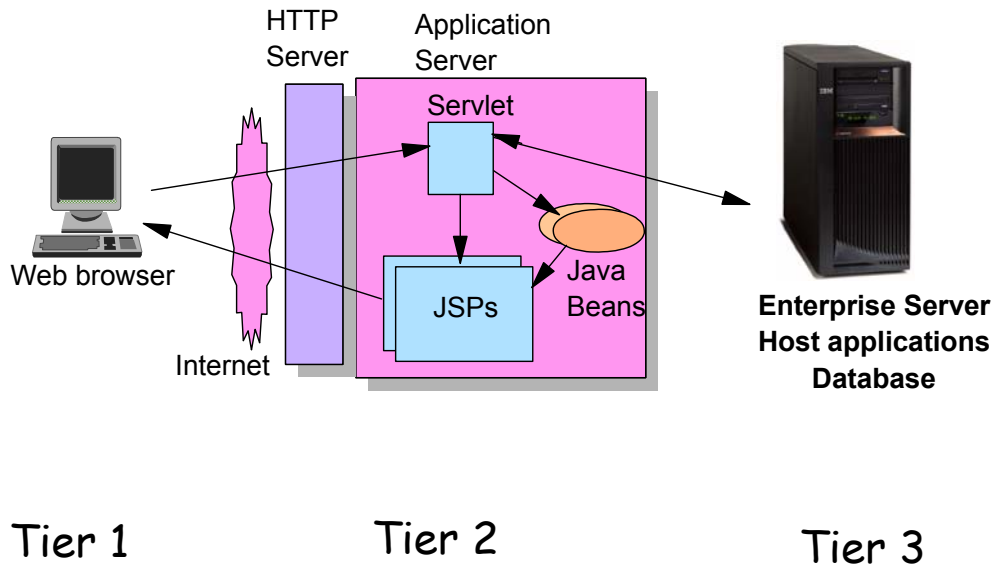
Version 6.0 (Windows)

### Opera

Version 5.0 (Linux)  
Version 6.0 (Windows)

### Mozilla

Other browsers (for these and other platforms) that support the current HTTP and HTML specifications should work but have not been tested with iSeries Access for Web.



There are several Web applications servers that can run on iSeries:

- **WebSphere Portal - Express for Multiplatforms V5.0.2**
  - 750 CPW
  - 2 GB memory
- **WebSphere Portal - Express Plus for Multiplatforms V5.0.2**
- **WebSphere Application Server -- Express V5.1**
  - 300 CPW
  - 512 MB memory
- **Also WAS Version 5.1 Base and Network Deployment**
- **WebSphere Application Server Version 5.0 Express for iSeries**
  - 300 CPW
  - 512 MB memory
- **Also WAS Version 5.0 Base and Network Deployment**
- **WebSphere Application Server Advanced Edition Single Server V4**
- **WebSphere Application Server Advanced Edition V4**
- **ASF Tomcat (included in IBM HTTP Server for iSeries)**
  - 70 CPW
  - 256 MB memory

— The ASF Tomcat web application server is part of the no-charge IBM HTTP Server for iSeries (5722-DG1)



## Notes: Web applications servers supported



- WebSphere Portal - Express for Multiplatforms Version 5.0.2 (ships with OS/400 Enterprise Edition -- 20 users). See web page at <http://www-306.ibm.com/software/genservers/portalexpress/features/> for description of Portal
- WebSphere Portal - Express Plus for Multiplatforms Version 5.0.2. See web page at <http://www-306.ibm.com/software/genservers/portalexpress/plus/>
- Requires a minimum of 750 CPW and 2 GB memory on iSeries. See web page at: <http://www-1.ibm.com/servers/eserver/series/software/websphere/portal/index.html>
  
- WebSphere Application Server (WAS) -- Express V5.1 (see Software Announcement Letter 203-339 dated December 16, 2003)
- WebSphere Application Server (WAS) -- Base V5.1
- WebSphere Application Server (WAS) -- Network Deployment V5.1
  
- WAS - Express for iSeries V5.0 (ships with OS/400 Enterprise Edition)
- WebSphere Application Server (WAS) -- Base V5.0
- WebSphere Application Server (WAS) -- Network Deployment V5.0
  
- WAS V4 Advanced Edition (AE) for iSeries
- WAS V4 Advanced Edition Single Server (AEs) for iSeries
  
- Apache Software Foundation's Jakarta Tomcat (included with the IBM HTTP Server 5722-DG1 which is shipped with OS/400)


Refer to the V5R3 readme.

Also refer to the V5R3 documentation: Installation and Usage Guide, Setup/Configuration Examples



## V5R3 Documentation



	<b>V5R3 iSeries Access for Web - Installation and Usage</b>	PDF
	Available in: Belgian Dutch, Chinese Simplified Chinese Traditional, Czech, Dutch, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Romanian, Spanish, Swiss Italian	
	V5R3 iSeries Access for Web with WebSphere <b>Portal - Express</b> for iSeries V5.0 - Setup/Configuration Example	PDF
	V5R3 iSeries Access for Web with WebSphere Application Server (WAS) - <b>Express for iSeries V5.1</b> - Setup/Configuration Example	PDF
	V5R3 iSeries Access for Web with WAS - <b>Express for iSeries V5.0</b> - Setup/Configuration Example	PDF
	V5R3 iSeries Access for Web with <b>WAS V5.1 for iSeries (Base and Network Deployment Editions)</b> - Setup/Configuration Example	PDF
	V5R3 iSeries Access for Web with WAS <b>V5.0 for iSeries (Base and Network Deployment Editions)</b> - Setup/Configuration Example	PDF
	V5R3 iSeries Access for Web with <b>Apache Software Foundation (ASF) Tomcat</b> - Setup/Configuration Example	PDF
	URL Interfaces to iSeries Access for Web	PDF

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

**First Install Customer Assistance for Websphere Application Server Standard or Advanced Edition for iSeries or AS/400.**

- We would like to welcome new customers to the Websphere arena and provide them with assistance that may be needed to install and configure Websphere Application Server, either Standard or Advanced Edition. By starting with a working instance of Websphere Application Server and reviewing the sample programs provided, your time spent with Websphere Application Server will be more productive and enjoyable. Through your application and acceptance into this program, the Rochester Support Center will provide you with 8:00AM - 5:00PM Central Standard Time phone support assistance in setting up a Websphere Application Server test environment.

**This assistance includes:**

1. Documentation clarification
2. Verify you have all Prerequisites available: Software, Hardware, PTF's, and Communication configurations
3. Creation of a default Websphere instance
4. Configuration and enablement of Websphere for an HTTP server
5. Installation and use of Websphere Client based Admin Console (excluded Firewall configuration)
6. Validate the above by running of a sample servlet.

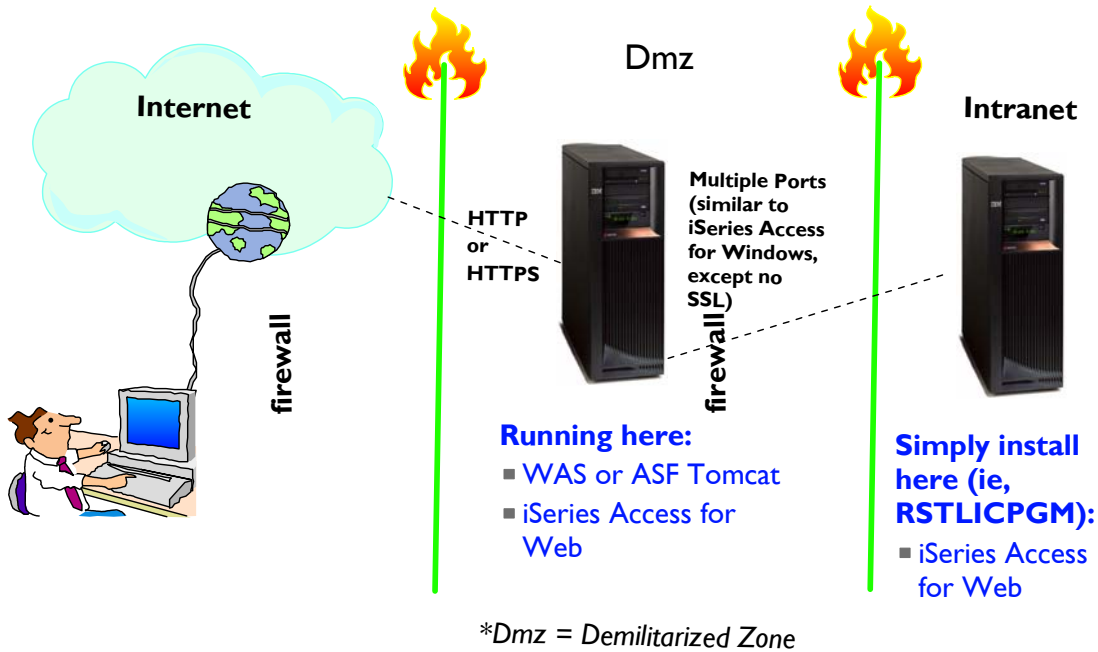
<http://www.ibm.com/servers/enable/site/websphere/assistance.html>

If you are interested in applying for participating in our First Install Customer Assistance for Websphere Application Server please provide the following information:

Company Name:  
Company Address:  
Company Phone Number:  
Name of technical contact:  
Number of technical contact:  
Technical contact email address:  
Technical contact fax number:

Return this completed letter to [rchfica@us.ibm.com](mailto:rchfica@us.ibm.com). A First Install Customer Assistance technical contact, will contact you when you have been accepted into the program.

Go to web page: <http://www.iseries.ibm.com/developer/websphere/assistance.html>



**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**

- HTTP (Port 80 default or any port)
- Port HTTPS Port 443 or any port)

\* See Information APAR III2227 for detailed information





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

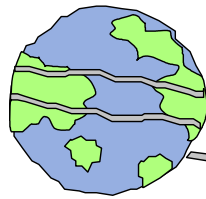
- If you are running WebSphere Application Server, refer to Chapter 3 of the Buying and Selling Guide for WAS. It has many good tips for getting WAS to perform optimally.
- Go to the iSeries WebSphere web page at <http://www-1.ibm.com/servers/eserver/iseries/software/websphere/index2.html>



The image shows a screenshot of Microsoft Internet Explorer. The 'View' menu is open, showing options like 'Font Size' and 'Text Size'. A callout box points to 'Font Size' with the text 'Font Size'. Another callout box points to the 'Internet Options' dialog box, which is open to the 'Security' tab. A callout box points to the 'Security' section with the text 'Set up your SSL through your browser'. The 'Security' section in the dialog box has several options checked, including 'Use SSL 2.0', 'Use SSL 3.0', 'Use TLS 1.0', and 'Warn about invalid site certificates'.

- Use any code page available in your browser
- iSeries Access for Web, V5R2, translated into 33 NLVs (including DBCS)

- Use any keyboard setting available in Windows
- See screens in preferred language



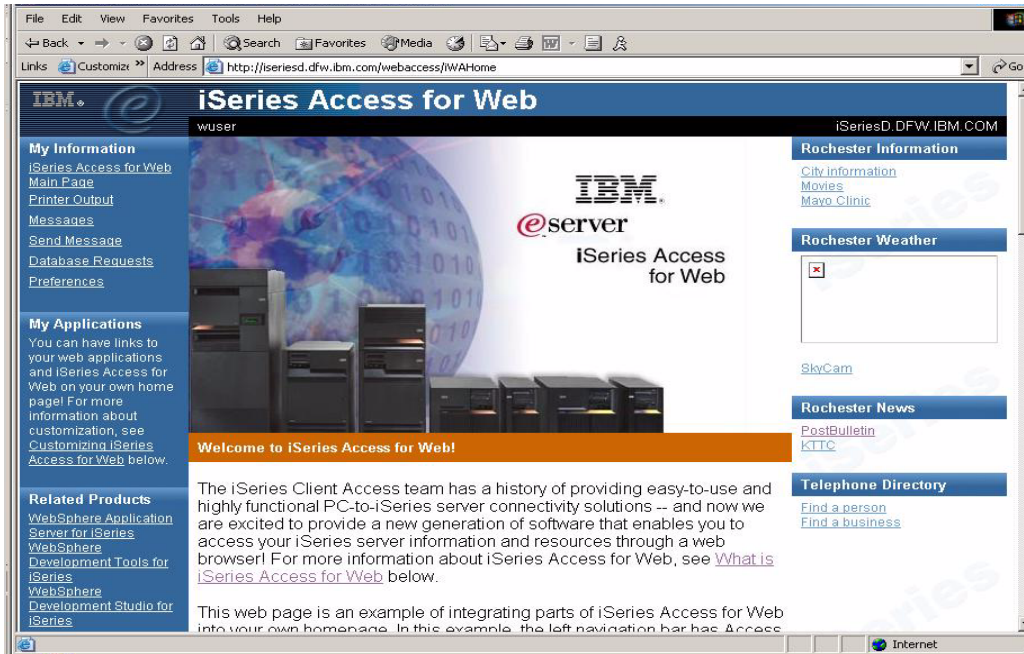
Let's Connect !



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



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

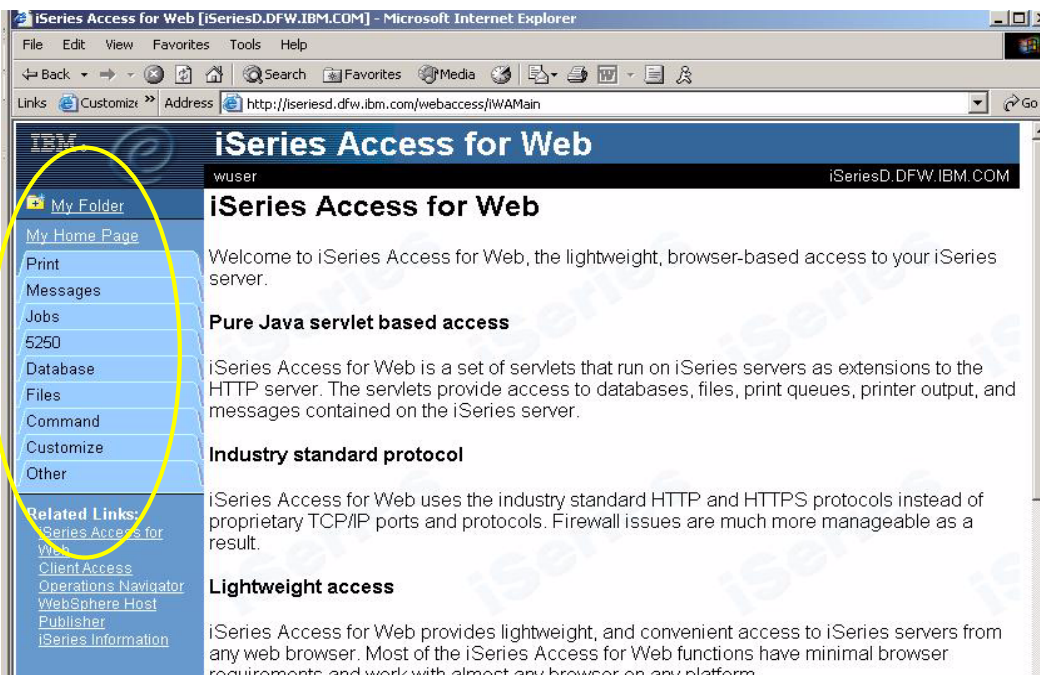


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**iSeries. mySeries.**



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



© 2004 IBM Corporation

**iSeries. mySeries.**



## Functions You Can Perform with V5R2 version...



### ★ My Personal Folder

#### Print

- ▶ Printer output
- ▶ Printers
- ▶ Internet Printers
- ▶ Printer shares
- ▶ Output Queues

#### Database

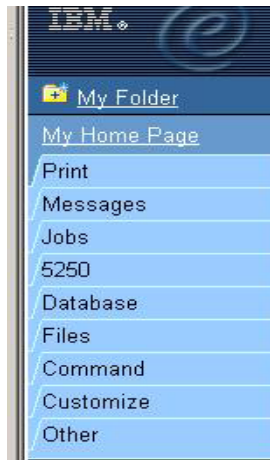
- ▶ Tables
- ▶ My Requests
- ▶ Run SQL
- ▶ Copy Data to Table
- ▶ Import Requests

### ★ 5250

- ▶ Start 5250 Session

#### Commands

- ▶ Run commands (Batch)



#### Files

- ▶ Browse Files (in IFS)
- ▶ File Shares (in NetServer)

#### Messages

- ▶ Display Messages
- ▶ Send Messages
- ▶ Operator Messages
- ▶ Message Queue

### ★ Jobs

- ▶ User Jobs
- ▶ Server Jobs

#### Customize

- ▶ Administrator controls access to functions by user or group of users:
- ▶ Can customize front page
- ▶ Can limit what tasks can be performed

★ New in V5R2 Access for Web, 5722-XH2



## Functions You Can Perform with the V5R3 version...



### 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

Access for Web, 5722-XH2, V5R3

Use Access for Web  
as your

**Window**  
to your iSeries

Through 'Customization'



*Different look/interface for different browser users*

Shipped/Default method of accessing iSeries resources

- For a more experienced iSeries end user, this provides a highly productive interface for working with all iSeries resources



Customize user 'window' to iSeries

- For the inexperienced user -- and to tightly control exactly what functions a user can perform on your iSeries -- as easy-to-use Customize function enables iSeries administrators to create unique 'windows' to the iSeries.
- These are associated with OS/400 profiles -- thus an administrator could create many different 'windows' for different types of users.





As you have seen in the previous charts, the front page of iSeries Access for Web can be 100% modified to look however your customer wants it to look. The Web page I see when I key in the url is the Web page associated with my USER ID. I could be the only one in my group profile that sees a particular view of the Web page, or I could be in a group profile with many other users. There is no limit as to how many different 'front pages' a customer may want to design/use for different groups of users.

Designing a front page is quite easy, it simply requires knowledge of HTML (not Java or other programming languages). One could use any one of their favorite HTML tools (like MS FrontPage, etc).

To see step-by-step how we customized our 'Access for Water' web page -- look in the recently published Redbook (<http://publib-b.boulder.ibm.com/cgi-bin/searchsite.cgi?query=SG24-6804>)

You can easily view or download this document by going to the iSeries Access web page at [www.ibm.com/eserver/iseries/access](http://www.ibm.com/eserver/iseries/access), then follow page to iSeries Access for Web.



### Services

- [See boat details - 5250](#)
- [See boat details - HATS LE](#)
- [See boat details - WebFacing](#)
- [See boat details - Host Publisher](#)
- [View available boats](#)
- [Order a boat](#)

- [Work with invoices](#)
- [Check messages](#)
- [Check system messages](#)
- [Administrator tasks](#)
- [Manage incoming items](#)
- [Monitor jobs](#)

### This Week's Special



Beautifully maintained 28 foot 1978 Carver Santa Cruz for only \$23,900. Head and galley refurbished in 2001. Only 31 hours on completely rebuilt motor. Click [here](#) to see this boat cruising the seas.

### Great Deals

For those bargain conscious among you, we have a large selection of new and slightly used boats for under \$75,000. Whether you are planning on sailing in your backyard pond or navigating the mighty Mississippi we can meet your wants, needs, or desires.  
[View our selection of modestly priced boats.](#)

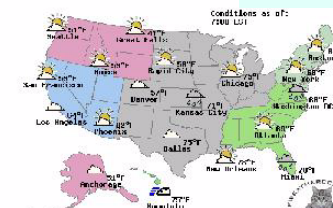
### Site Support

Your comments are important let us know if you have any que can help you in any way. Add message to user BOATHHELP [message](#)

If you prefer to contact us direct [telephone directory](#) to lookup phone and e-mail addresses.

### Weather Conditions

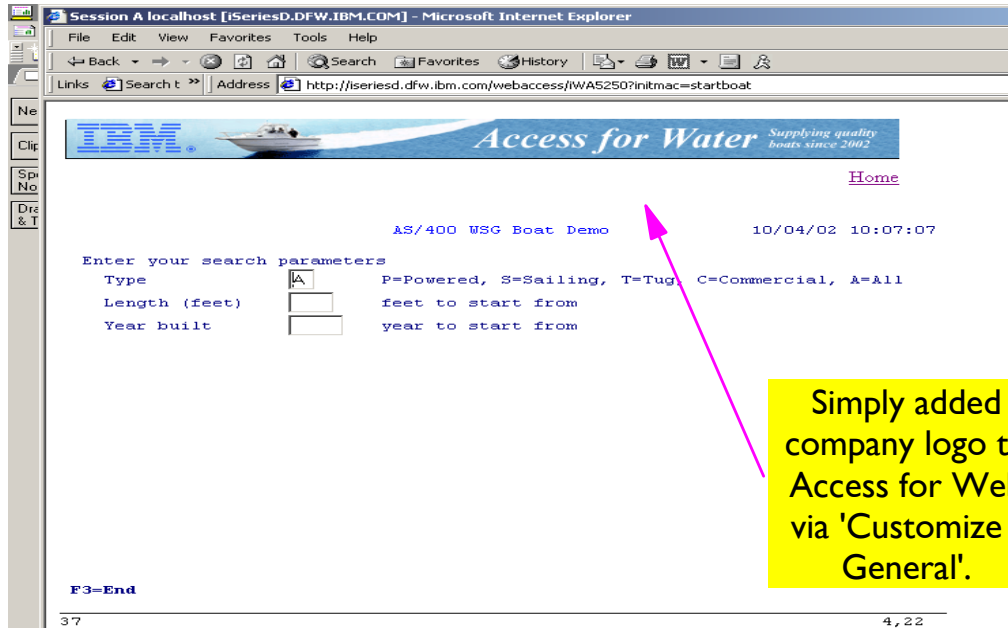
Is it a great day for boating? Check today's forecast.



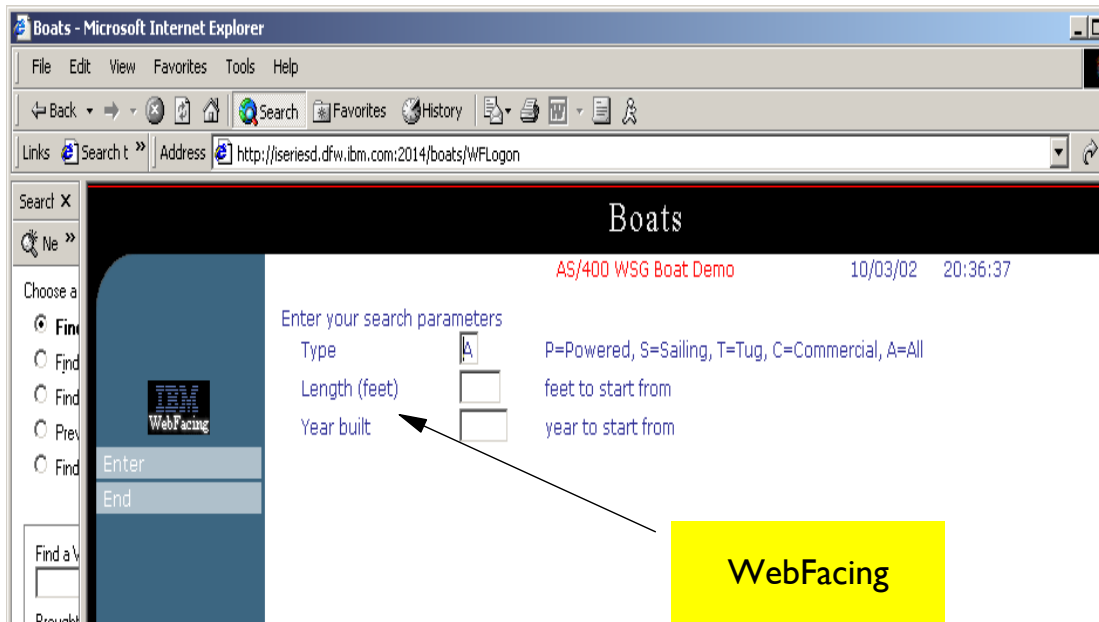
**Access for Web provides customization capabilities**

- Could be used as 'entry' point to iSeries
- Run your WebFacing, HATS, HATS LE applications from here

# IBM® Boats Application - using Access for Web 5250 interface



# IBM® Boats application - WebFacing



**Selected 'work with invoices'**

**Requested PDF output**

**Can now attach to an email and send**

Description	Part No.	Quantity		
Hunter 33.5	004356	1		
Boat trailer	199234	1		
Boat anchor	043993	1	FREE	\$0.00
			Subtotal	\$59,700.00
			Tax	7.00%
			<b>TOTAL</b>	<b>\$63,879.00</b>



**Access the following web site through your browser:**

- <http://iseriesd.dfw.ibm.com/webaccess/iWAHome> (case sensitive)
- This is a Marketing machine in Dallas - DEMOnet

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

- User ID of WACUST
- Password of GUEST1 (a one, not an L)

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 ADMIN1BOAT (a one, not an L)

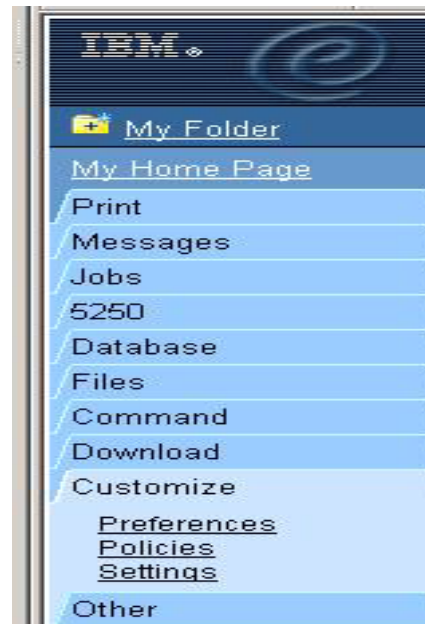
This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session -- or if they had used WebFacing or Host Publisher they could run the application with them. So click on all 3 links and see 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..



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?

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

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

- For example, a Files access policy can be set to Deny to 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
Profile: CMINER		
<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.

[View all policy settings](#)  
View current policy settings for all categories.

[Group membership](#)  
View current group membership for this user profile.



# Notes: Understanding which Policy Settings are enforced



iSeries Access for Web enforces policy settings for a user in the following order:

- If the policy setting is specific to the user profile, it is enforced.
- If the policy setting is not specific to the user profile, group profile memberships are checked. If the policy has been set for any of the user's group profiles, it is enforced.
- If the policy setting is not specific to any of the user's group profiles, a special group, \*PUBLIC is checked. If the policy has been set in the \*PUBLIC group profile, it is enforced. Note: All users are members of this group and cannot be removed.
- If the policy setting is not specific to the user profile, or any group profiles (including the \*PUBLIC group), the shipped default policy setting is enforced.

The Customize function allows administrators to set policies for users and groups of users.

These policies control:

- Functions a user can perform
- How certain information is presented to the user.

When a function is restricted, its navigation bar content is removed. Access to the servlet is restricted, and it takes affect immediately.

Administrators with \*SECADM special authority are automatically authorized to administer settings for users and groups of users that they have authority to. These administrators can then grant other user profiles permission to administrate iSeries Access for Web functions.



# 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 to **'Deny'** functions for all users in a single step
- You can 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

**Policies - Group Profiles**

Profile filter:  Filter List

Filter by:  Profile  Description

	Profile	Description	Action
Command	*PUBLIC	Default policy settings for all users	<a href="#">Edit View Members</a>
Download	#GROUP1	Test group profile	<a href="#">Edit View Members</a>
Customize	GROUPA	JUAN PABLO HURADO GDL IWA TEST 877-2852	<a href="#">Edit View Members</a>
Preferences	GROUP1	CUSTOMIZE: TEST RER USER1,USER2,USER3	<a href="#">Edit View Members</a>
Policies	GRUPO		<a href="#">Edit View Members</a>
Settings	QDESUSR	DB2 TEXT EXTENDER USER	<a href="#">Edit View Members</a>
Other	WALABUSER	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
Related Links:	WA01GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
iSeries Access for Web	WA02GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
iSeries Access	WA03GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
iSeries Navigator	WA04GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
WebSphere Host Publisher	WA05GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
iSeries Information Center	WA06GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
iSeries Resource Library	WA07GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
	WA08GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>
	WA09GROUP	Group Profile for iSeries Access for Web lab	<a href="#">Edit View Members</a>

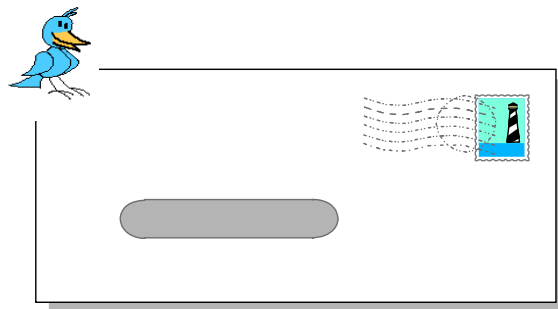
Preferences are used to control how functions operate

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

Preferences			
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>	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.	

[View all preferences](#)  
View current preference settings for all categories.

### Integration with Lotus Sametime...



## Ability to 'e-mail' results as attachment

- 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
  
- 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

## Set up my session for e-mail capability...

**Policies - Mail**  
Profile: CMINER

Policy	Derived From	Action	Setting
Mail access	Shipped default	Use current setting	Allow
Send mail	Shipped default	Use current setting	Allow
SMTP mail server	Profile setting	Use current setting	us.ibm.com
<b>1</b> E-mail address	Profile setting	Use current setting	cminer@us.ibm.com
<b>2</b> E-mail address is user preference	Shipped default	Use current setting	Allow

Buttons: Save, Cancel, Apply

**Preferences - Mail**

Preference	Derived From	Action	Setting
<b>2</b> E-mail address	Shipped default	Use current setting	cminer@us.ibm.com

Buttons: Save, Cancel, Apply

[Preferences help](#)  
View help for editing preferences.

1. Must provide SMTP server address:

- Use \*PUBLIC to set up same address for all users
- If blank, Access for Web will use information in SDD

2. e-Mail address must be set for each user

- Each user could do this themselves through 'Preferences'

## 'Mail' Support - V5R2

iSeries Access for Web allows you to e-mail database query results, printer output PDF's, command completion notifications, and other files to anyone with an e-mail address. The mail function is available from several places in iSeries Access for Web, including Database, Files, and Commands -- so you can attach the results from an SQL request or mail a file located in the integrated file system. You can also send e-mail notifications to users when items are saved in Personal Folders. This provide a one-step way to distribute information across the network, and will be particularly useful when recipients are not iSeries users.

You could tell iSeries Access for Web that you want to attach your PDF output to an e-mail instead of showing it in your browser. You can also have the PDF sent to your browser, or my folder, or as an e-mail attachment. After selecting the e-mail option, the PDF can be put in a note as an attachment. Now put in an e-mail address, add a message, and send the note along with the PDF attachment.

In order for anyone to use the e-mail option there must be an SMTP mail server somewhere in your network that the iSeries can access, and this address has to be defined to Access for Web. An iSeries administrator can quickly set up the SMTP mail server address for all Access for Web users by clicking on the 'Customize' function, then selecting Group Profiles, and then selecting 'Edit' on the "PUBLIC group profile. Alternatively, since many iSeries customers use the OS/400 System Distribution Directory (SDD) to keep user information and it already has configured e-mail addresses in there, Access for Web will get e-mail addresses from the SDD if the email address is blank.

In order for specific users to use the Mail function their e-mail address must be configured in their user profile. Your administrator could configure this for each user, or he could allow users to configure their own e-mail addresses in the 'Mail Preferences' portion of the Customize tab on the iSeries Access for Web navigation bar.

### Using information already in the iSeries System Directory (SDD)

The iSeries system directory provides a way to associate an SMTP domain and user ID with your user profile. The WRKNAMSMTP command automatically updates users' email information by adding user profile information into the SMTP names table. First you need to add an entry to the system directory for your user profile and you would have to choose the option to "Add name for SMTP"

If there is no e-mail address provided in the user's policy profile, then Access for Web will check to see if they have an SMTP user ID and domain configured in the iSeries system directory. If they do, it is used as the default e-mail address.

So, this is an alternative way to getting e-mail addresses configured for iAW.

**Administrator can use Import / Export to set up email address for all users**

- Regular email
- Sametime

The iSeries Access for Web Import policy settings function allows administrators to import policy settings into iSeries Access for Web policies. Multiple iSeries profiles can be updated with one request. The following policy settings are supported:

- E-mail address - Category : Mail
- Sametime user - Category : Sametime

**Import file format**

The Import policy settings function requires an input file containing the policy settings to import. The supported file type is an XML document. XML documents are required to be in a concise format. Element names are case sensitive and need to be specified in the documented hierarchical order. Multiple profile elements are allowed. The XML document format supported by the Import policy settings function is structured as shown below:

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<QiwaPolicies>
  <profile name="TSMITH">
    <mail>

    <fromEmailAddress>tsmith@myMailServer.com</fromEmailAddress>
    </mail>
  </profile>
  <profile name="CJONES">
    <mail>

    <fromEmailAddress>cjones@myMailServer.com</fromEmailAddress>
    </mail>
  </profile>
  <profile name="PERSON3">
    <mail>

    <fromEmailAddress>person3@myMailServer.com</fromEmailAddress>
    </mail>
  </profile>
</QiwaPolicies>
```

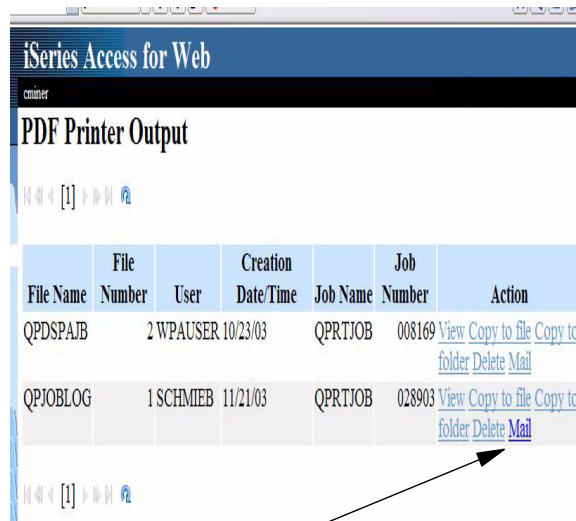
Identifies the iSeries profiles that are updated on the import request. The name attribute specifies the iSeries profile name to update. Specify the profile name in uppercase and double quotes. Multiple profile elements can be specified in the XML document. At least one profile element is required. Profile specific policy settings to import are provided within the profile element. The administrator running the import request must have \*CHANGE authority on the iSeries for all profiles specified.

**mail and fromEmailAddress elements**

**mail**  
Identifies the E-mail address policy setting to import. The policy setting is specified in the fromEmailAddress element. These elements are not required within a profile element, but when specified, the E-mail address policy setting for the associated iSeries profile is updated. This policy setting cannot be imported into the iSeries Access for Web \*PUBLIC group profile.

**fromEmailAddress**  
Identifies the Sametime user policy setting to import. The policy setting is specified in the username element. These elements are not required within a profile element, but when specified, the Sametime user policy setting for the associated iSeries profile is updated. This policy setting cannot be imported into iSeries group profiles or the iSeries Access for Web \*PUBLIC group profile.

**'Mail' option will now be available in any function of Access for Web that supports 'Mail'**



Mail output




### Ability to get Sametime messages

- **Can get a Sametime note:**
  - 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
  - The administrator/system operator has sent a **break message**
- **You must have a Sametime Server installed in your network and accessible from your iSeries**

Type and Model	Feet	Year	US\$
<input type="checkbox"/> A Hangar	20	1940	100,000,000
<input type="checkbox"/> A Spandau1	72	2000	100,000,000
<input type="checkbox"/> A MOLSLINIEN	300	1999	100,000,000
<input type="checkbox"/> A Spandau	720	1999	100,000,000
<input type="checkbox"/> C Dark Boat Co. Aluminum	60	1970	4,000,000

**Sametime is an add-on to Lotus Notes**





To send Sametime announcements, the following conditions must be met:

- The Sametime server to use must be identified. Use the Sametime customization settings to configure this information.
- Each announcement recipient must have a registered user name on the Sametime server.
- The Sametime user policy must be set to the registered user name for each announcement recipient.
- The Sametime client and server code must be version 3.0 or later.
- The IP address of the iSeries server must be in the Sametime server's trusted IP list. If the iSeries server has multiple IP addresses, all IP addresses must be added to the list. To add an IP address to the trusted IP list, edit the sametime.ini file in the data directory of the Sametime server and add the following line to the Config section of the file:

[Config] VPS\_TRUSTED\_IPS="trusted IP addresses separated by commas"

Question:

How does iSeries Access for Web work with Lotus instant messaging? In particular, I am interested in knowing if you use message queues?

Answer:

iSeries Access for Web does not support the instant messaging feature of Sametime. Rather, it supports Sametime announcements. Sametime announcements differ from instant messaging in that the receiver of an announcement is not able to reply to the sender. There are two ways to take advantage of the Sametime announcement support in iSeries Access for Web:

- Sametime announcements can be sent to iSeries Access for Web Sametime users using the Send Break Message feature.
- Sametime announcements can also be used as a notification option when an item is placed in a user's folder or when the folder has reached a size or item count threshold.



## Add Sametime user's address

- Policy would have to be set for each Sametime user
- Could let each user set their own Sametime address through 'Preferences' screen

Policy	Derived From	Action	Setting
Sametime access	Shipped default	Use current setting	Allow
Send Sametime content	Shipped default	Use current setting	Allow
Sametime user	Profile setting	Use current setting	cminer@us.ibm.com
Sametime user is user preference	Shipped default	Use current setting	Allow

Preference	Derived From	Action	Setting
Sametime user	Shipped default	Use current setting	cminer@us.ibm.com

[Preferences help](#)  
View help for editing preferences.

- Now when I go into 'Messages', and 'Send Break Message', I will see all users who have been set up as Sametime users
- I can select specific users or all Sametime users who are also Access for Web users

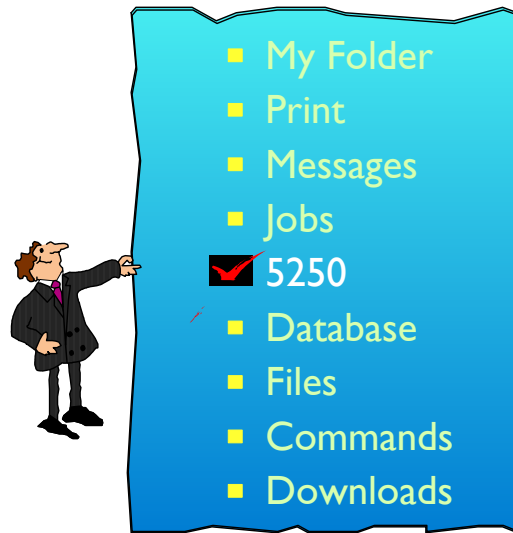


Documented in iSeries Access for Web Sametime Setup Guide is information on how to integrate Sametime with iSeries Access for Web.

You must refer to Sametime documentations on how to configure the Sametime Server.

In order to send Sametime announcements, the following conditions must be met:

- The Sametime server that is to be used must be identified. Use the Sametime customization settings to configure this information.
- Each announcement recipient must have a registered user name on the Sametime server.
- The Sametime user policy must be set to the registered user name for each announcement recipient.
- The Sametime client and server code must be Version 3.0 or later, OS/400 V5R2 or later, iSeries Access for Web V5R3
- The IP address of the iSeries server must be in the Sametime server's trusted IP list. If the iSeries server has multiple IP addresses, all IP addresses must be added to the list. To add an IP address to the trusted IP list, edit the sametime.ini file in the data directory of the Sametime server and add the following line to the Config section of the file:  
 [Config] VPS\_TRUSTED\_IPS="trusted IP addresses separated by commas"



This is the only function in the iSeries Access for Web product that requires 'interactive'.



All other functions run as 'batch' tasks on the iSeries

<http://myiseries:port/webaccess/iWAMain>

- Reconnect to a previously active session
- Configure a session or work with previously configured sessions
  - Either by me or by administrator
- Start a new 5250 session

IBM® @server iSeries Access for Web  
cminer

My Folder 5250

My Home Page

Print Access 5250 user interface on your iSeries server with iSeries Access for Web.

Messages [Active sessions](#)

Jobs

5250

- List active 5250 user interface sessions.

[Active sessions](#)

[Configured sessions](#)

- List configured 5250 user interface sessions.

[Start session](#)

[Start session](#)

- Start a 5250 user interface session.

Database

Files

Command

Download

Customize

Other

An Administrator may choose to limit users to only starting sessions that have been preconfigured and have shortcuts assigned to them.

- User selects '**Configured Sessions**'
- Only one listed, only action user can perform is to '**start**' it
- This session could have been preconfigured with a macro to bypass OS/400 screen and perhaps put the user directly into a particular application or menu screen



let's see steps to do this...



### Record a macro

- Start Session and get to OS/400 signon 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

1

### Edit Macro to bypass signon 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

User .....  
 Password .....  
 Program/procedure .....  
 Mem .....  
 Current library .....

RELEASE: V05R02M00  
 DRIVER: 290717

USE OF THIS SYSTEM IS FOR IBM MANAGEMENT APPROVED PURPOSES  
 USE IS SUBJECT TO AUDIT AT ANY TIME BY IBM MANAGEMENT.

(C) COPYRIGHT IBM CORP.

37

Attention Refresh Screen Field Exit  
 System Request Stop Session Reset

Macros

StartRecording



cmner  
**My Macros**

My Macros navigation: [1]

Macro	Action	Shortcut	Created By	Access
boats	Copy Delete Rename Create shortcut Edit	No	cmner	cmner
Shortcut to boats	Copy	Yes	cmner	*PUBLIC

My Macros navigation: [1]

[Active sessions](#)  
 Work with your active sessions.

[Shortcuts to macros you recorded](#)  
 Display a list of shortcuts to macros you recorded. Shortcuts can be deleted from this list.

[Configured sessions](#)  
 Work with your configured sessions.

[Start session](#)  
 Start a new session.

[My keypads](#)  
 Work with your keypads.

[5250 user interface help](#)  
 View help for working with your macros

Configure a session

- 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 Use user id for workstation ID
- Set up view (Web or Traditional, select how you want screen set up)
- Select your colors for screen

IBM @server  
**iSeries Access for Web**

cmner

My Folder  
 My Home Page  
 Print  
 Messages  
 Jobs  
 5250  
 Active sessions  
 Configured sessions  
 Start session

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

**Configure New Session**

**General**

Session: BOATS for \*PUBLIC \* required

Default view: Web

Initial macro: boats  
 Shortcut to boats for \*PUBLIC

Enable ad

**Server**

Server: LP116AB.RCHLAND.IBM.COM

Port: 23

Code page: 37

**Workstation ID**

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

**View**

Web Traditional

2

**Create Shortcut for your users**

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

3

Session	Server	Action	Shortcut	Created By	Access
BOATS for *PUBLIC	LP116AB.RCHLAND.IBM.COM	<a href="#">Start</a> <a href="#">Copy</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Create Shortcut</a> <a href="#">Edit</a>	No	cminer	cminer
Shortcut to Boats	LP116AB.RCHLAND.IBM.COM	<a href="#">Start</a>	Yes	jek	cminer
Shortcut to BOATS for *PUBLIC	LP116AB.RCHLAND.IBM.COM	<a href="#">Start</a>	Yes	cminer	*PUBLIC

**Create Shortcut**

Create shortcut to "BOATS for \*PUBLIC"

Shortcut name:

Access:

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

- ▶ Use your company logos
- ▶ Macros to get to right applications

**Your application screens look even better!**

Beautifully maintained for only \$23,900. Only 31 hours of use. See this boat...

Great Deals: For those bargain hunters, a selection of new boats for \$75,000. Whether you're a backyard pond owner, you can meet your...

Search parameters:  
 Type:  P=Powered, S=Sailing, T=Tug, C=Commercial, A=All  
 Length (feet):   
 Year built:  year to start from

- Page up, page down, and function keys supported on:
  - ▶ Microsoft Internet Explorer (version 5.0 and later), Netscape (version 6.0 and later), Mozilla
- 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://myseries:port/webaccess/iWA5250>
  - Would bring you right to 5250 emulation screen



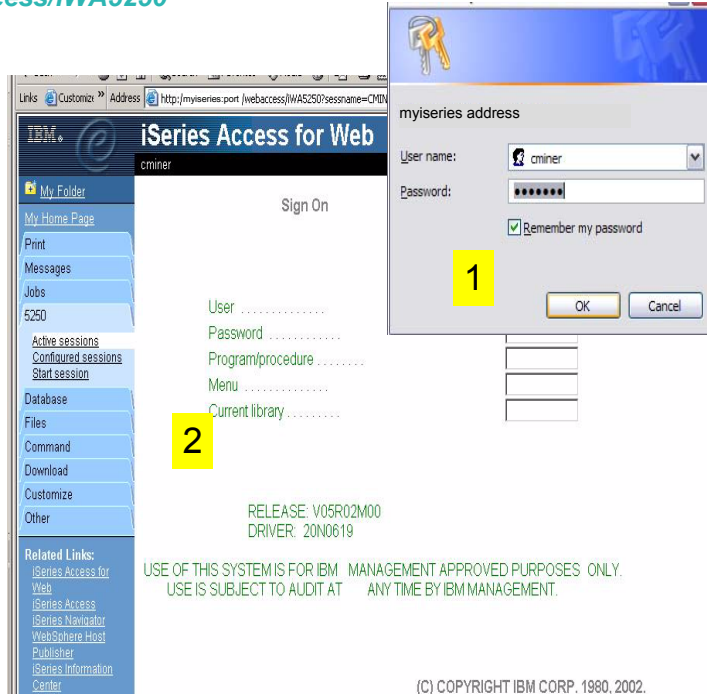
*Out of the box look*

- **Session Access with URL Interface**
  - The iSeries Access for Web 5250 URL interface provides a way to access 5250 sessions from a saved bookmark or from a web page link. If the URL is specified without the session name parameter, the most recently accessed active session for the iSeries Access for Web authenticated user is reconnected. If there are no active sessions, a new 5250 user interface session is started with default settings.
- **<http://server:port/webaccess/iWA5250>**
  - If the URL is specified with the session name parameter, a new session is started every time the bookmark or the web page link is accessed. The configured session settings are used to start the session.
- **<http://server:port/webaccess/iWA5250?sessname=mysession>**
  - Complete documentation for the iSeries Access for Web URL interfaces is available on the iSeries Access for Web home page.

http://myiseries:port/webaccess/iWA5250

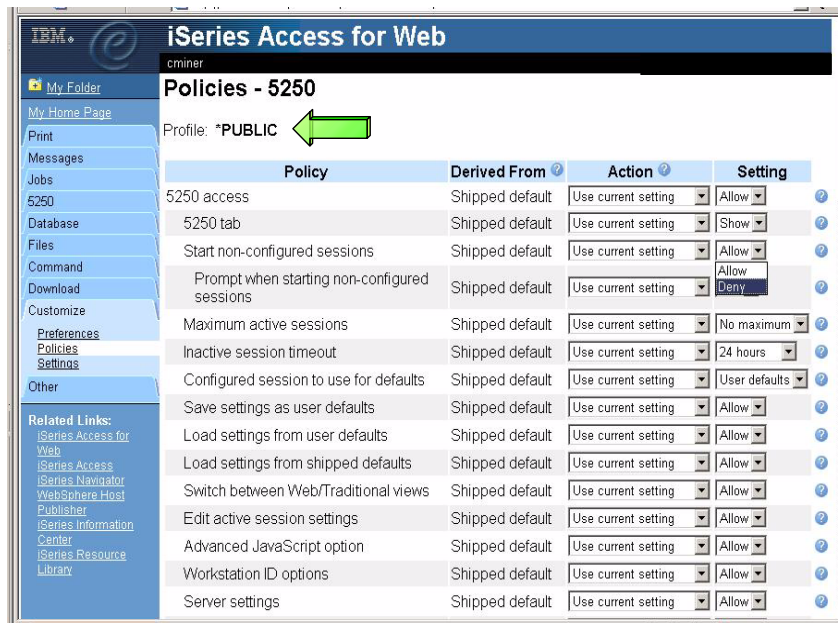
■ Key in iSeries Access for Web

- Access for Web url and include IWA5250
- First need to provide valid userid / password to browser
- Then would get OS/400 sign-on screen



● Set up 5250 sessions for specific users, groups of users, all users

● Full control of what users can access or do in 5250





Session defaults - the Configured session to use for defaults policy determines how default values for session settings are derived. A configured session is used to determine default values if the value of this policy is a configured session name or the name of a shortcut to a configured session. The saved user default settings are used if the value of this policy is User defaults. If a default value for a setting cannot be found, the IBM shipped default value for that setting is used.

Session defaults are used in the following cases:

- To initialize values on the Start Session page
- To initialize values on the Configure New Session page
- To set values on a session configuration page when the Load Defaults button is pressed
- To start a new session using the Start Default Session URL interface. See Session Access with URL Interface for more information.
- To start a session with the Start Session link when the Prompt when starting non-configured sessions policy is set to No

Saving defaults - save as Defaults saves the current settings as the default values for the current user. This option is only available if the Configured session to use for defaults policy is set to User defaults and the Save settings as user defaults policy is set to Allow. If a configured session is used for default session settings, new default settings are saved by editing the default configured session.

Loading defaults - load Shipped Defaults replaces the current settings with the shipped default settings. Load Defaults replaces the current settings with the currently configured default settings, as determined by the Configured session to use for defaults policy. If default settings are not configured, Load Defaults has the same effect as Load Shipped Defaults.

- **Sessions listed here are sessions I did not 'sign off' on OS/400**
  - These sessions are all using 'Interactive' on iSeries
  - They could show up here even if iSeries had released them. But then when user tries to reconnect they would be getting a new 5250 session

Server	Session	Started	Last Accessed	View	Action ?
localhost	C	2/27/04 9:25:26 AM CST	2/27/04 9:25:27 AM CST	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>
MYISERIES.RCHLAND.IBM.COM		2/26/04 12:41:05 PM CST	2/27/04 9:15:28 AM CST	Web	<a href="#">Reconnect</a> <a href="#">Stop</a> <a href="#">Edit</a> <a href="#">Share Session</a>
MYISERIES.RCHLAND.IBM.COM		2/26/04 12:38:41 PM CST	2/26/04 12:40:22 PM CST	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

- If I were in the middle of a 5250 application, then went somewhere else in my browser (ie, 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 on again to OS/400

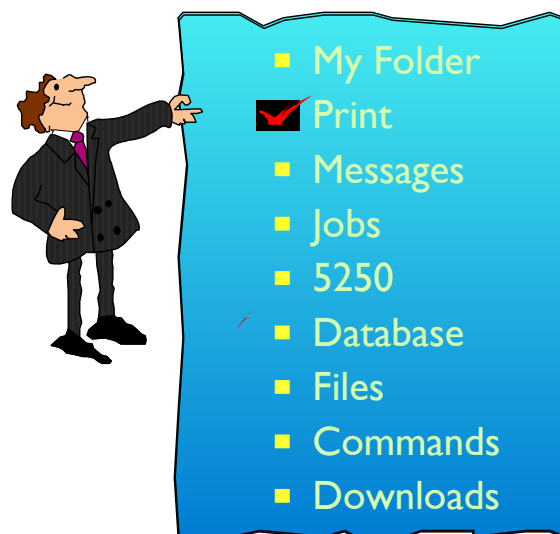
**Action**

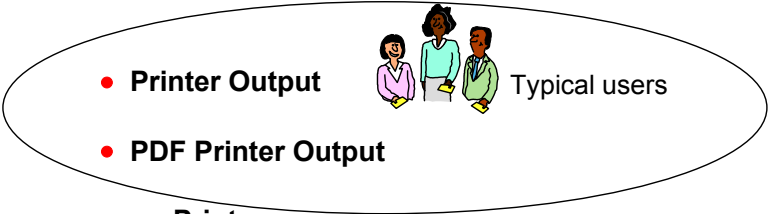
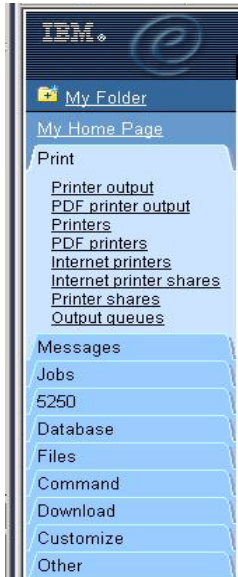
[Reconnect](#) [Stop](#) [Edit](#)  
[Share Session](#)

[Reconnect](#) [Stop](#) [Edit](#)  
[Share Session](#)

[Reconnect](#) [Stop](#) [Edit](#)  
[Share Session](#)

The screenshot shows the 'iSeries Access for Web' interface. On the left is a navigation menu with items like 'My Folder', 'My Home Page', 'Print', 'Messages', 'Jobs', and '5250'. The main content area displays 'AS/400 WSG Boat Demo' with a timestamp '2/27/04 10:39:55'. Below this is a search section titled 'Enter your search parameters' with fields for 'Type' (set to 'A'), 'Length (feet)', and 'Year built'. A legend explains the search criteria: 'P=Powered, S=Sailing, T=Tug, C=Commercial, A=All'.





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

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

- **My 'printer output'**
  - Can view it
  - Or select 'Work with' for more options

iSeries Access for Web									
Printer Output for cminer									
File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	Action	User	Job	
QPJOBLOG	QZDASOINIT	10/17/03 1:32 PM	2	1	Ready	Work with View View as View PDF	CMNER	QPR1	
QPJOBLOG	QZDASOINIT	11/5/03 1:40 PM		1	Ready	Work with View View as View PDF	CMNER	QPR1	
QPJOBLOG	QZDASOINIT	11/5/03 1:40 PM		1	Ready	Work with View View as View PDF	CMNER	QPR1	
QPJOBLOG	QZDASOINIT	11/5/03 1:42 PM		1	Ready	Work with View View as View	CMNER	QPR1	

The list of spooled files owned by the current user can be displayed. From the list, SCS and AFP output can be viewed in PNG, TIFF, PCL and AFP formats. ASCII output can be downloaded to the browser. PDF documents can be created with spooled file contents. These documents can be viewed in the browser, placed in a personal folder, or sent to someone as an e-mail attachment. Options are also provided to perform the following actions on printer output: hold, delete, print next, move to another printer, move to another output queue, send to another server, change attributes, and copy to a database file.

**View**

Use the View action to view the printer output.

**View As**

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

**View PDF**

Use the View PDF action to view, mail, or send printer output in PDF format.

**PDF Transformations of Printer Output**

iSeries Access for Web has two PDF transformation possibilities, IBM Infoprint Server (5722-IP1) or a TIFF transform.

IBM Infoprint Server is a separately purchasable product that gives iSeries Access for Web users the ability to create full text PDF files that deliver document fidelity, while preserving the ability to navigate through the document. If you have IBM Infoprint Server installed, iSeries Access for Web automatically detects and uses it. If you do not have IBM Infoprint Server installed, the individual pages of the spooled file will be converted into images. These images become the pages of the PDF document. You cannot edit or search for content in any of these pages.

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

- **View my printer output**

◀◀◀ [1] 2 3 4 5 6 ▶▶▶ 🔍

[Printer friendly format](#) [Zoom in](#) [Zoom out](#)

1 Ready Work with CMIP

View

View as

View PDF

5722SS1 VSR2M0 D20719 Work with Active Jobs 2/17/04 12:10:51 Page 1

```
Reset . . . . . : #NO
Subsystems . . . . . : #ALL
CPU Percent Limit . . . . . : #NONE
Response Time Limit . . . . . : #NONE
Sequence . . . . . : #SYS
Job name . . . . . : #ALL
```

CPU % . . . . . : 0 Elapsed time . . . . . : 00:00:00 Active jobs . . . . . : 296

Subsystem/Job	User	Number	Type	Pool	Pty	CPU	Tnt	Rsp	AuxTD	CPUs	Function	Status	Threads
BLDTESTS	QSYS	818181	SBS	2	0	.0			0	.0		DEQW	1
RCBLDTEST	RTANNER	818182	BCH	2	5	39.0			0	.0	PGM-QD2BRCV	DEQW	1
QASE5	QSYS	815380	SBS	2	0	.0			0	.0		DEQW	1
IMASEXP	QEJBSVR	815733	BCH	2	25+	871.0			0	.0	PGM-QASESTRSVR	JVAN	49
LAURALLES1	QEJBSVR	817735	BCH	2	25+	1329.5			0	.0	PGM-QASESTRSVR	JVAN	27
QASE51	QSYS	815481	SBS	2	0	.0			0	.0		DEQW	1
IMALEXP	QEJBSVR	815756	BCH	2	20+	283.4			0	.0	PGM-QASESTRSVR	JVAN	56
QRATCH	QSYS	815257	SBS	2	0	.2			0	.0		DFQW	1
QCMN	QSYS	815259	SBS	2	0	.1			0	.0		DEQW	1
QAC50TP	QUSER	815273	PJ	2	20	.0			0	.0		PSRW	1
QLZPSERV	QUSER	815289	PJ	2	20	.0			0	.0		PSRW	1
QNHAPINGD	QUSER	815268	PJ	2	25	.0			0	.0		PSRW	1
QNHARECDB	QUSER	815268	PJ	2	25	.0			0	.0		PSRW	1
QNHAFDWO	QUCFD	815283	PJ	2	25	.0			0	.0		PSRW	1



<http://myseries:port/webaccess/iWASpool>

- **View As - my printer output**
  - TIFF
  - PCL
  - AFP Viewer (plug-in)
  - AFP Viewer (Windows application)

### View Printer Output

File name: QPDSPAJB  
 File number: 1  
 Job name: QPRTJOB  
 Job number: 819881  
 User: CMINER  
 Created system: LP116AB  
 Created date/time: 2/17/04 12:19 PM

View as: PNG

PNG  
 TIFF  
 PCL  
 AFP Viewer

### View as Details

- The TIFF, PCL, and AFP Viewer options require either an additional plug-in or application to perform the viewing.
- There are two ways to view AFP output:

1 Ready [Work with CMIP](#)

[View](#)  
[View as](#)  
[View PDF](#)



## View as Details

The TIFF, PCL, and AFP Viewer options require either an additional plug-in or application to perform the viewing. There are two ways to view AFP output:

### Using AFP Viewer Application

The AFP viewer application shipped with iSeries Access for Windows (5722-XE1) can be used to view AFP and SCS output. To make your browser automatically use the AFP viewer to view AFP or SCS output, associate the application with the AFP and SCS MIME types. The association of MIME type to application is browser dependent. To associate AFP output with the viewer application, associate the MIME type application/vnd.ibm.modcap or file extension of .afp with the application ftdwinvw.exe, usually found in C:\Program Files\IBMClient Access\AFPViewer. To associate SCS output with the viewer application, use the MIME type of application/x-vnd.ibm.SCS or file extension of .scs. Refer to the browser documentation for the details of associating an application to a MIME type.

### Using AFP Viewer plug-in

A Windows AFP viewer plug-in that works with Microsoft Internet Explorer and Netscape Navigator can be downloaded using iSeries Access for Web. The Windows AFP Viewer plug-in can be downloaded from the Downloads link found on the Download tab of the iSeries Access for Web navigation bar. The AFP Viewer plug-in is also available from the IBM Printer site at [http://www.printers.ibm.com/internet/wwsites.nsf/vwwebpublished/afpwb\\_ww](http://www.printers.ibm.com/internet/wwsites.nsf/vwwebpublished/afpwb_ww).

# IBM® Printer Output - 'View PDF'

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

**PDF Output Settings**

Destination: **Browser** Settings ?

Advanced

Run

**Destination Details**

Specifies the destination of the newly created PDF document. The PDF document can be sent to the following options:

**Browser**

Based on the browser's settings, the document will either be displayed by a plug-in, or a file save dialog will be presented.

1 Ready [Work with](#)  
[View](#)  
[View as](#)  
[View PDF](#)

# IBM® View PDF - 'Browser' option

- **Spooled output converted to PDF**
- **View in browser**

1 Destination: **Browser** Settings ?

Advanced

Run

2

**Access for Water**

To: Joe Customer  
 1234 Beach Street  
 Hometown, CA 12345

Date: Thursday, June 13, 2002  
 Invoice No. 9876543  
 Payment Due Monday, July 15, 2002

Description	Part No.	Quantity	Price	Amount
Hunter 33.5	004356	1	\$57,900.00	\$57,900.00
Boat trailer	199234	1	\$1,800.00	\$1,800.00
Boat anchor	043993	1	FREE	\$0.00
Subtotal				\$59,700.00
Tax				7.00%
TOTAL				\$63,879.00



## View PDF - 'Mail' Option



- eMail your converted PDF output
- Your mail server can be anywhere in your network
- Users receiving your email need only their mailbox

**PDF Output Settings**

Destination:  Settings

Advanced:     **1**

Run

---

**Convert Printer Output to PDF**

From: boatadmin@accessforwater.com

To:  **2**

cc:

bcc:

Subject: Prices of Boats

Here is information on boats you requested

Attachment: QPNPSPRTF.237266.BOATADMIN.QPRTJOB.64.PDF

Send Cancel

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iSeries. mySeries.



## Put PDF output in Personal Folders...

- Selected 'Personal Folder' option
- Picked whose folders to put in
- Notified when output was delivered

**PDF Output Settings**

Destination:  Settings **1**

Advanced:     **1**

Run

---

**Browse Folder Owners**

Folder owners:

- Q1VWWT
- Q1VWWTBCH
- Q1VWWTSEC
- Q1VWWTSRV
- RHAUGEN
- SCBAUSS
- SCDEMO
- SCHUMAN
- SCMS
- SHAWP
- SMYTHE
- SUNDT
- TBUDNIK
- TEST300
- TSC

**2**

**iSeries Access for Web**

wuser iSeriesD.DFW.IB

**Convert Printer Output to PDF**

Output copied to folder for SCHUMAN,SMYTHE,WACUST,WHIDEMO,WUSER **3**

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iSeries. mySeries.

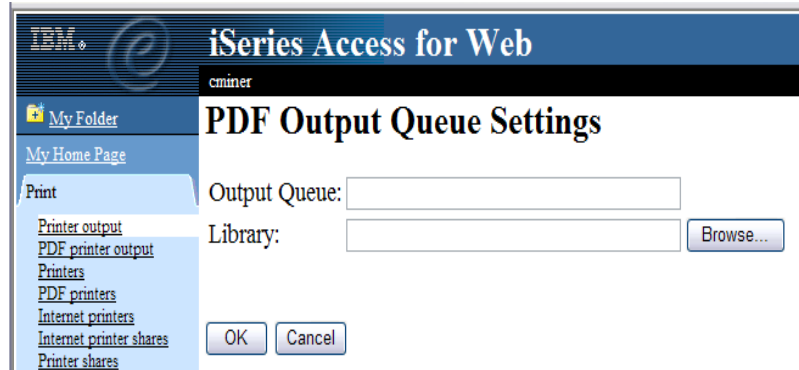
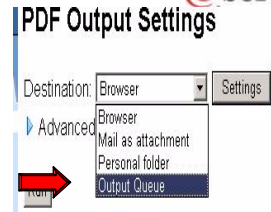


## Put PDF output in a PDF Output Queue...



- **Must have (or create) a PDF Output Queue to use this option**

- **Device Type - InfoPrint 40 (240 or 300 DPI), 4028, 3812**
- **Drawer details**
- **Restore printer output details**
- **Embed font details**



\* *IBM Infoprint Server (5722-IP1) needed if you want to use PDF Output Queue function*

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**iSeries. mySeries.**



## Notes: PDF Output Queue



Output Queue - the PDF file can be sent to an output queue. To use this function, use the Settings button to specify the target output queue.  
Device Type Details - specifies the type of printer device that the IPDS to PDF transform will emulate.

InfoPrint 40 (240 DPI) - the transform will emulate an InfoPrint 40 printer device at 240 dots per inch resolution. The transform works like a TCP/IP connected 240 ppi IPDS InfoPrint 40 with the 4820 feature with the following exceptions:

- Object area shading and page area shading is supported.
- Bi-level color image and text, graphic and bar code color are preserved in PDF output.
- Multiple output bins, finishing, and jogging are not supported.
- IPDS multi-resolution support is not supported.
- Multiple identical copies are not supported.
- Separator pages are not supported.
- Double-byte outline fonts are not supported. There are no resident double-byte fonts.
- This setting can use both raster and outline fonts.

InfoPrint 40 (300 DPI) - the transform will emulate an InfoPrint 40 printer device at 300 dots per inch resolution. The transform works like a TCP/IP connected 300 ppi IPDS InfoPrint 40 with the 4820 feature with the following exceptions:

- Object area shading and page area shading is supported.
- Bi-level color image and text, graphic and bar code color are preserved in PDF output.
- Multiple output bins, finishing, and jogging are not supported.
- IPDS multi-resolution support is not supported.
- Multiple identical copies are not supported.
- Separator pages are not supported.
- Double-byte outline fonts are not supported. There are no resident double-byte fonts.
- This setting can use both raster and outline fonts. IBM recommends you use this setting whenever possible.

4028 Printer - the transform will emulate a 4028 printer device.

- This value is designed to be used for compatibility only and uses the raster fonts that are resident in a 4028 printer.
- It cannot use outline fonts.

3812 Printer - the transform will emulate a 3812 printer device.

- This value is designed to be used for compatibility only and uses the raster fonts that are resident in a 3812 printer.
- It cannot use outline fonts.

Restore Printer Output Details - specifies if the spooled file should remain in the original output queue after being transformed to the PDF format. If the spooled file is to remain in the output queue, the spooled file's order in the queue will probably change.

Embed Font Details - the fonts used within the PDF document are included in the PDF document. This is necessary if the fonts referenced in the PDF document do not exist in the environment used to display the document.

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**Printer Output for cminer**

File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	Action	User	Job Name	Job Number
QPJOBLOG	QZDASOINIT	11/7/03 6:04 PM	1	1	Ready	<a href="#">Work with</a> <a href="#">View</a>	CMINER	QPRTJOB	199547
QPJOBLOG	QZDASOINIT	11/7/03 3:10 PM	1	1	Held	<a href="#">Work with</a> <a href="#">View</a>	CMINER	QPRTJOB	199547

**Action Details**  
The Printer Output function supports the following actions:

## 'Work With' Printer Output

- Can quickly move printer output to:
  - Another printer
  - Another output queue
  - Another server
  - A database file
- Can change printer output attributes

**Work With Printer Output**

File name: QPJOBLOG  
File number: 4  
Job name: QPRTJOB  
Job number: 199547  
User: CMINER  
Created system: RCHASD8B  
Created date/time: 11/5/03 1:42 PM

Hold Print Next Delete

**Action**

- [Move printer output to another printer](#)
- [Move printer output to another output queue](#)
- [Send printer output to another server \(SNDTCPSPLF\)](#)
- [Change printer output attributes \(CHGSPLFA\)](#)
- [Copy printer output to database file \(CPYSPLF\)](#)



Work With - use the Work With action to hold, release or print the specified spooled file next. There are also links available that will allow you to perform the following actions on the spooled file:

Move printer output to another printer

Move printer output to another output queue

Send printer output to another server (SNDTCPSPLF) - the Send TCP/IP Spooled File (SNDTCPSPLF) command sends a spooled file to be printed on a remote system. The remote system must be running TCP/IP. The SNDTCPSPLF command is the iSeries version of the TCP/IP LPR (Line Printer Requester) command.

Change printer output attributes (CHGSPLFA) - the Change Spooled File Attributes (CHGSPLFA) command changes the attributes of a spooled file while it is on an output queue. The changes affect only the current processing of the file. The next time the job runs and the file is produced, the file attributes are derived from the device file description, the program, and any override commands. If the file is currently being produced on an output device, the only parameters that can be changed are COPIES, RESTART, and SAVE. An attempt to change any other parameter results in an error, and no file attributes are changed. However, if the file is being held on an output queue because of spooling attribute errors, this command can be used to change the attributes, and a spooling writer can then be started to produce the file.

Copy printer output to database file (CPYSPLF) - the Copy Spooled File (CPYSPLF) command copies the data records in the specified spooled file to a user-defined physical data-base file. This conversion allows the use of spooled files in applications using microfiche, data communications, or data processing. Print lines that are all blank are not copied. When you copy a spooled file to a physical file, certain information is lost or changed, including:

Graphics data is lost.

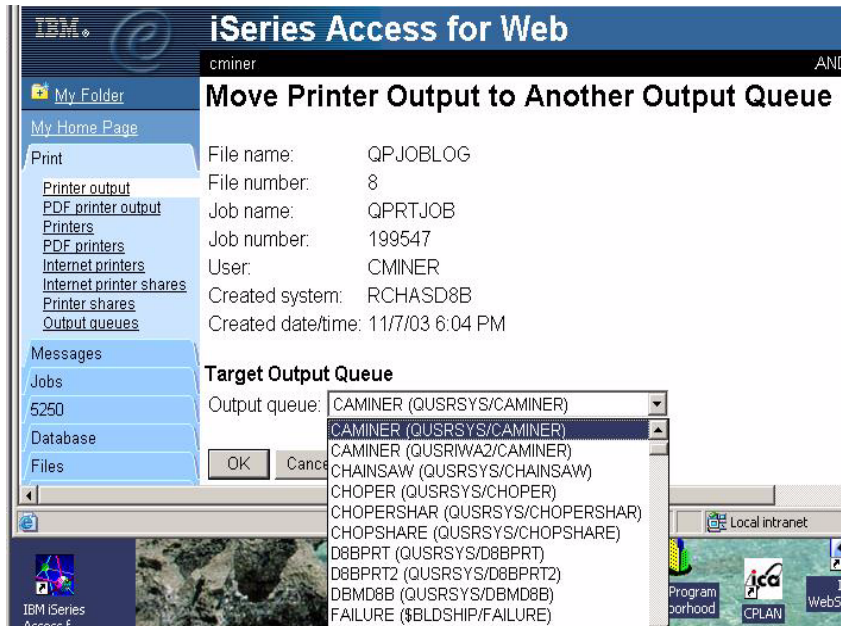
Bar code data is lost.

Data defined by using the DFNCHR or TRNSPY keywords is replaced with blanks.

Translation for CHRID and TRNTBL is not performed. (CHRID and TRNTBL are specified through DDS and printer device file parameters.)



- Can move to any Output Queue on system
  - Output Queue or Printer must have previously been set up
  - Will be converted to PDF on-the-fly if moving to PDF printer\*



\* IBM Infoprint Server (5722-IP1) needed if you move it to a PDF printer

## What is IBM InfoPrinter Server?



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

- 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. Learn more



# Notes: Infoprint Server for iSeries (5722-IP1)



- Converts any standard iSeries output file to PDF
- Provides automatic e-mail of any iSeries output file using PDF
- PDF files can be routed to iSeries output queues for printing on PDF-capable printers
- PDF files can also be used as input for PDF conversions if installed. ~~But not required~~
- Provide ability to segment an iSeries output file by logical group and create individual PDF files for each segment
- Provide a user exit to facilitate customization and ID lookup for the e-mail process
- Provide real text, high-fidelity PDF output, enabling search, navigation, and superior performance through the output
- Transform PCL print files into AFP
- Transform PostScript Level 3™ print files into AFP
- Transform PDF print files into AFP
- Convert applications formatted using iSeries page definitions to AFP (Note that Infoprint Designer for iSeries uses page definitions for page formatting)
- Convert standard AFP print files to fully encapsulated AFP files, meaning externally referenced resources such as fonts, page segments, and overlays are built in
- Index AFP print files for use with Web browsers and archival
- Convert standard Internet image file formats — GIF, TIFF, and JPEG — to iSeries (AFP) image format

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

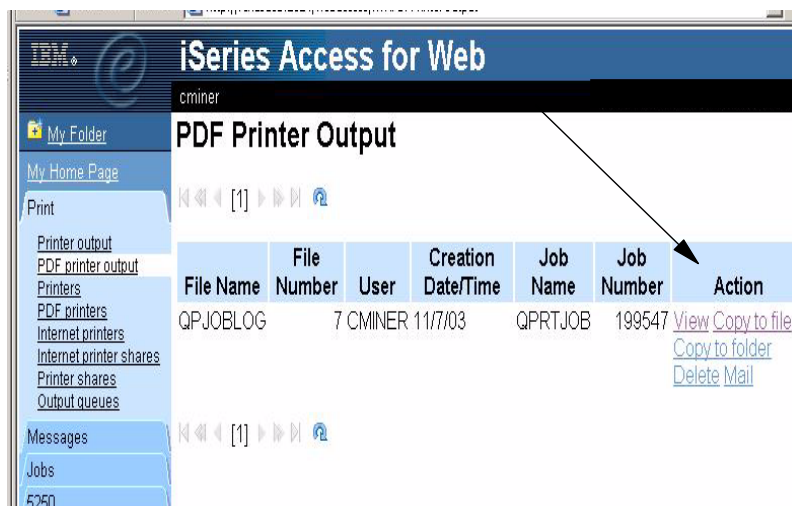


# My PDF Printer Output

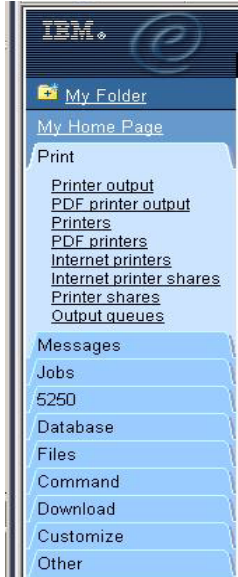


<http://myiseries:port/webaccess/iWAPDFPrinterOutput>

- Spooled output converted to PDF
- Now is in my PDF Printer Output
  - Can view
  - Copy to folders
  - Mail
  - Delete
- Application could additionally send to another output queue (in SCS or AFP mode)



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



- Printer Output
- PDF Printer Output

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



iSeries operators, administrators



<http://myiseries:port/webaccess/iWAPrinters>

### Printers

- You will see all printers\* that you have access to
- Can get to PDF Output for each specific printer

iSeries Access for Web						
Printers						
Printer	Status	Action	Description	Output Queue		
ANA	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/ANA</a>		
CAMINER	Ready	<a href="#">Stop</a> <a href="#">Hold</a>	My PDF Printer	<a href="#">QUSRSYS/CAMINER</a>		
CHAINSAW	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/CHAINSAW</a>		
CHOPERSHAR	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/CHOPERSHAR</a>		
CHOPSHARE	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/CHOPSHARE</a>		
DBMD8B	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/DBMD8B</a>		
D8BPRT	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/D8BPRT</a>		
D8BPRT2	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/D8BPRT2</a>		
HATSPRT	Unavailable	<a href="#">Make Available</a> <a href="#">Start</a>	DEVICE CREATED FOR RCHASD8B.	<a href="#">QUSRSYS/HATSPRT</a>		

\* Administrator can set 'filters' to restrict printers from being shown (using Policies)

<http://myiseries:port/webaccess/iWAPDFPrinters>

## Printers

- You are seeing all printers that you have access to
- Can get to PDF Output for each specific printer

PDF Printer	Status	Action	Description
CAMINER	Ready	<a href="#">Work with settings</a> <a href="#">Stop</a> <a href="#">Delete</a> <a href="#">Change authority</a> <a href="#">Override</a>	My PDF Printer
TRAVISTEST	Unavailable	<a href="#">Work with settings</a> <a href="#">Start</a> <a href="#">Delete</a> <a href="#">Change authority</a> <a href="#">Override</a>	test

[Create new PDF printer](#)  
Allows you to create a new PDF printer.

**PDF Printer**  
A PDF printer automatically transforms queued SCS or AFP printer output into PDF documents.

**Action Details**  
The PDF Printers function supports the following actions:

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

A PDF printer automatically transforms queued SCS or AFP printer output into PDF documents. The PDF Printers function supports the following actions:

- Work With = Users with \*SPLCTL special authority can use the Work with action to control printer function for the specified PDF printer. The actions that will be available are dependent on the status of the printer.
- Start/Stop = Use the Start or Stop options to start creating PDF printer output or stop creating PDF printer output from the specified PDF printer. The action available is dependent on the status of the printer.
- Delete = Use the Delete action to remove the PDF Printer.
- Change = Use the Change action to change the current configuration for the specified PDF Printer. Only the owner of the PDF printer or a user with \*ALLOBJ special authority can change the configuration of a PDF printer.
- Override Settings = Use the Override Settings action to change the current configuration for the specified PDF printer. The new configuration values for the printer will be based off of the values found in the specified PSF configuration object. Only the owner of the PDF printer or a user with \*ALLOBJ special authority can change the configuration of a PDF printer.
- Change Authority = Use the Change Authority action to change the owner of the PDF printer, or to allow other users to access the PDF printer. Only the owner of the printer can use this option.

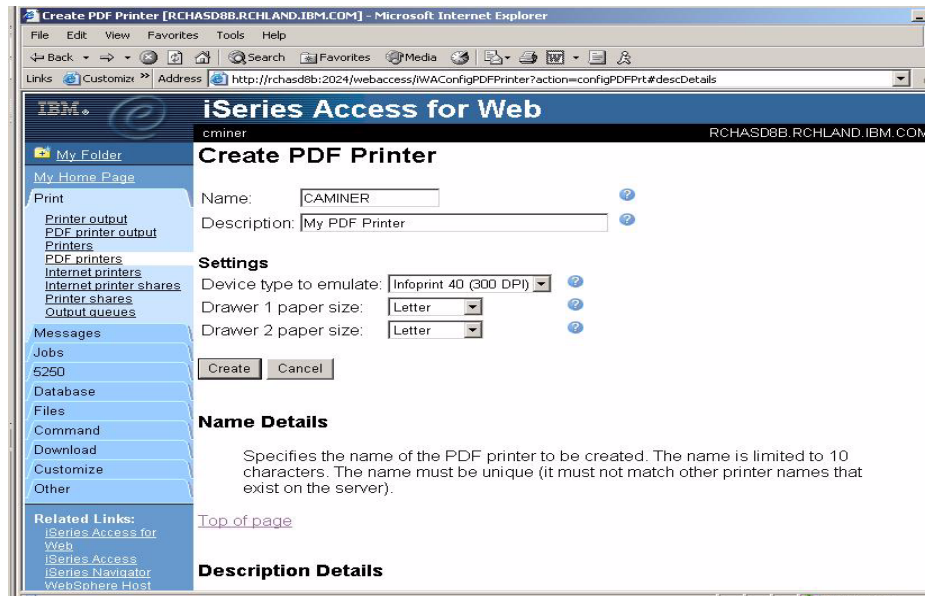
### PDF Printers

IBM Infoprint Server is required if you want to use the new PDF Printers function.

#### Notes:

- IBM Infoprint Server may make changes to the order of the spooled files in the current user's list.
- It may also make changes to the creation date and time and the start and complete date and time. The spooled file must be in either the HELD, READY, or SAVED state to be printed by IBM Infoprint Server

- **Must create a PDF Printer before you can move printer output to a PDF**



In order for a printer to be capable of printing PDF (without the aid of a browser) the printer must support the Adobe® PostScript® 3™ standard. See <http://www.adobe.com/products/postscript/main.html>.

Here is an excerpt: "The industry-standard printing and imaging technology Adobe® PostScript® 3™ is the worldwide printing and imaging standard. Used by publishers, corporations, and government agencies around the globe, PostScript 3 gives you the power to create and print visually rich documents with total precision. The PostScript 3 printing technology is licensed to printing equipment manufacturers for integration into their printing environments. As a scalable printing architecture, it can be easily integrated into a wide range of devices and technologies while maintaining the high quality and performance you expect from Adobe. If you have a printing device equipped with Adobe PostScript, there are no limits on your use of color, text, graphics, and images. Adobe PostScript translates your great ideas into print — exactly as you intended."

Here is some info on IBM Printers.

IBM Printing Systems specializes in output solutions for e-business. A leader in production print, print-on-demand technologies, one-to-one marketing initiatives and print management software, the company's offerings include printers, software, consultation, systems integration, supplies, service and support.

IBM workgroup printers

Implement true Adobe PostScript technology as a page description language (PDL). Through the use of Adobe PostScript 3™, in its latest printers, users benefit from increased print speed and superior print quality for both simple office documents as well as visually rich documents.

IBM's Infoprint Manager

A comprehensive solution for managing digital printing that address the requirements of a variety print markets—includes support for Adobe Extreme®. When printing on an IBM high-speed printing system, Adobe Extreme processes each page of a Adobe Postscript document individually in parallel, making it possible to RIP pages fast enough to maintain the rated speed of the printer.

# Internet Printers

- Allow Windows 2000/XP users to print remotely, over the Internet, to any printer in an iSeries network
- Uses the Internet Printing Protocol (IPP)
- Easy to configure
- Authentication options
- Secure printing over **Secure Sockets Layer (SSL)**
- iSeries supports simple XML-based text printing and advanced AFP printing
  - Could also use InfoPrint Server to convert Postscript output (for example)

**Add Printer Wizard**

**Locate Your Printer**  
How do you want to locate your printer?

If you don't know the name of the printer, you can browse for one on the network.

What do you want to do?

Type the printer name, or click Next to browse for a printer

Name:

Connect to a printer on the Internet or on your intranet

URL:

< Back   Next >   Cancel

Print from Windows 2000/XP using the AFP driver shipped with Client Access Express (5722-XE1) or  
Download AFP Driver for Windows at  
<http://www.printers.ibm.com/afpdr.html>





IPP printing allows you to send and manage print information from a variety of remote sites by sending print information over the Internet or Intranet. IPP is a versatile printing method, and should be supported by a variety of printers and network adapters.

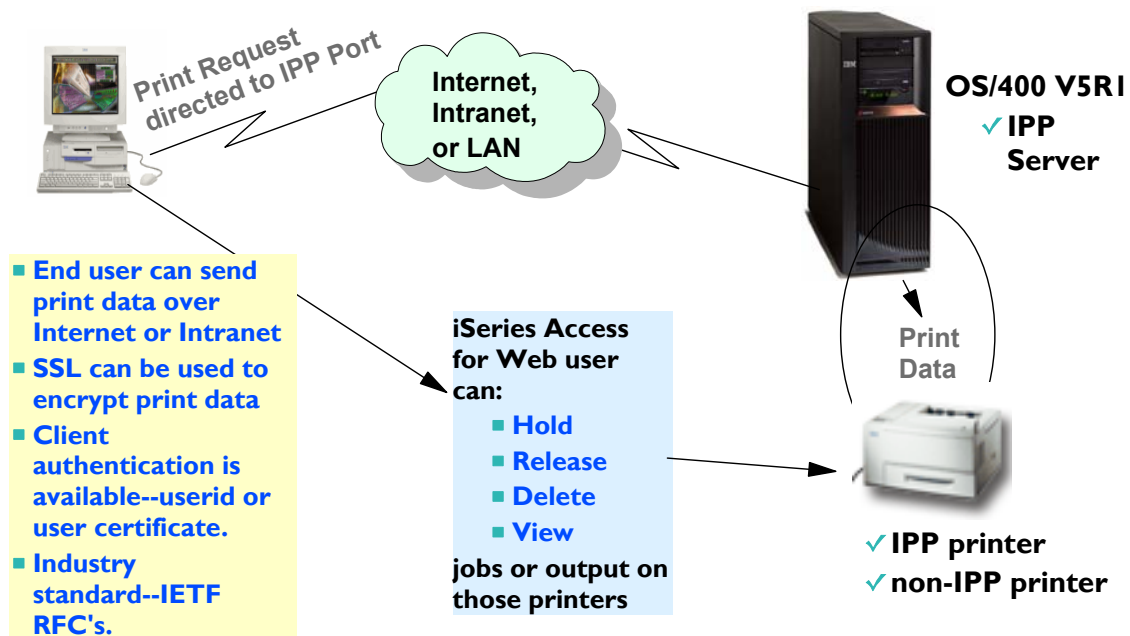
- This protocol provides the advantages of printing with LPR/LPD, but is significantly easier to manage and troubleshoot because print status information is available during the printing process.
- IPP also provides excellent security by allowing SSL encryption.
- IPP printing solutions communicate using TCP/IP ports, and require an HTTP server, Java, and Digital Certificate Manager (if SSL is used).
- Not all devices support IPP, so verify hardware compatibility before implementing an IPP-based printing solution.

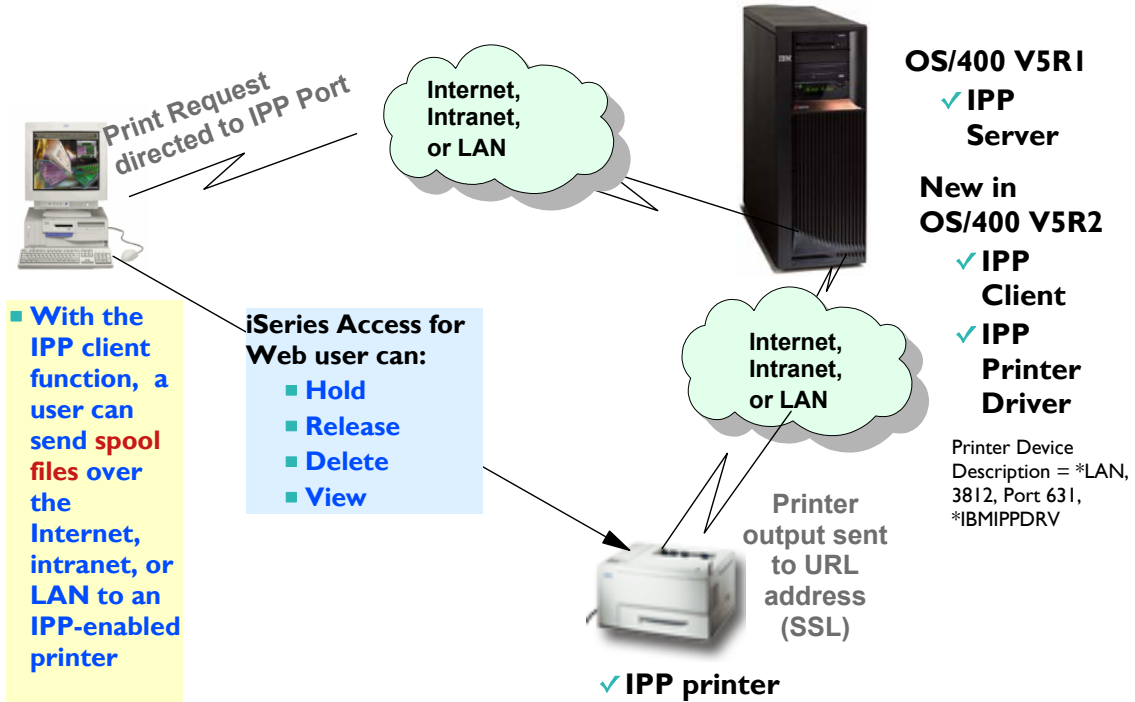
### Situation

You need to provide printing services across several existing LANs, which consist of both PCs and several servers, and must include your sales staff at several remote offices across the country. Because your printing solution ties in existing hardware from a several LANs, you require a printing solution that will be compatible with a wide variety of printers and network adapters. Moreover, you need to configure printers and work with print jobs and errors at several remote sites. Also, since some of the communication involves confidential information, you require a printing solution that provides secure communication. With these needs in mind, you decide that printing over your corporate intranet will be the most versatile option, so you need to configure your network to support IPP printing.

### Details

IPP printing requires an IPP server handling requests from a variety of IPP client devices. Since this communication uses HTTP, print requests can travel over your company's intranet or over the Internet. IPP uses SSL to encrypt communication and provide secure connections.





With OS/400 V5R1, the iSeries can function as an IPP server. This support on the iSeries allows an IPP client to print over the internet, intranet, or LAN to an iSeries-configured printer, via the iSeries. OS/400 V5R1 cannot function as an IPP client.

With OS/400 V5R2, the iSeries can function as an IPP server, just like it could with V5R1. But, in addition, it can function as an IPP client. The IPP client function is part of the base OS/400 V5R2. With the IPP client function, a user can send spool files over the internet, intranet, or LAN to an IPP-enabled printer (or, to a printer configured on an IPP-enabled server, such as an iSeries). The following new functions are provided in OS/400 V5R2:

- New OS/400 printer driver
- New driver, named \*IBMIPPSRV
- New driver is implemented according to standard IPP V1.1. The IPP protocol has two versions, IPP V1.0 and IPP V1.1.
  - IPP V1.1 is on the IETF standards track. Secure connections using TLS on port 631 was added in IPP V1.1.
  - IPP V1.0 is a subset of IPP V1.1. Except for secure connections on port 631, the IPP print driver (\*IBMIPPSRV) will work with IPP V1.0 printers.

By creating a \*LAN, 3812, Port 631, \*IBMIPDRV printer device description on a V5R2 iSeries, a user can print from the iSeries over the internet, intranet or LAN to an IPP-enabled printer (or, to a printer which is configured on an IPP-enabled server, such as an iSeries).

Only one well-known port has been allocated to IPP at this time. That is port 631. The IPP client or IPP server is expected to manage whether the connection on port 631 is secure or non-secure. The IPP printer may require a SSL/TLS session to be established. (Note, IBM printers that support IPP, only support SSL at this time. Not TLS). The iSeries user may want to require a SSL/TLS session. A new printer device configuration parameter is provided so that the IPP print driver can be configured to only establish secure connections.

- iSeries Printer Device Programming (SC41-5713-05)
  - <http://publib.boulder.ibm.com/series/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://myiseries:port/webaccess/iWAIPPPrinters>

Printer	Status	Action	URL	Description
PRINTER	Ready	<a href="#">Work with</a>	9.99.99.999	INTERNET PRINTER (GDL TEST)

- **This view is filtered to include only iSeries print resources configured to support IPP**
  - Printer devices or output queues
  - The most important information shown on the Internet printers form is the URL. This URL is used by the IPP client to access the iSeries print resources.

The screenshot shows the IBM Internet Printers web interface. The top section, titled "Printers", displays a table with columns: Printer, Status, Action, Description, and Output Queue. A yellow box with the number "2" highlights the "Action" column. The table lists a printer named "PRINTER" with status "Ready" and description "INTERNET PRINTER (GDL TEST)". The "Output Queue" column contains the link "QUSRSYS/PRINTER", which is highlighted with a yellow box and the number "3". A red arrow points from this link to a yellow callout box titled "Access for Web".

**Access for Web**

- Can 'hold, start, stop
- Can 'work with, view...'

The bottom section of the screenshot shows the "Printer Output in QUSRSYS/PRINTER for \*ALL" page, which displays a table of print jobs. The table has columns: User, Job Name, Copies, Action, Creation Date/Time, and Output Queue. Three jobs are listed, all for user "GILBERTM" and job name "QPADEV000K". Each job has 1 copy and was created on 1/9/04 at 3:08 PM. The "Action" column for each job contains links for "Work with", "View", "View as", and "View PDF". The "Output Queue" column for all jobs is "QUSRSYS/PRINTER".

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**iSeries. mySeries.**

Select the Internet printers link to see a list of the Internet printers configured on the system. The list of Internet printers includes the following attributes:

**Internet printer**

The name of the Internet printer. If the Internet printer is a defined printer device, you may click on the linked name to list and work with the printer.

**Output queue**

The output queue associated with the Internet printer. You may select the linked name of an output queue to see a list of all spooled files that reside on that output queue.

**URL**

The URL used to access the Internet printer.

**Printer data type**

The type of data expected by the Internet printer.

**Printer file**

The printer file associated with the Internet printer.

**Authentication method**

The authentication method used for the Internet printer.

Many IBM InfoPrint printers support IPP, ie,

- Lexmark workgroup printers from 20-45 ppm.
- Homerun-based midrange cutsheet printers from 60-110 ppm (which covers a wide selection of the overall printer line)
- Those not IPP capable are impact printers, thermal printers, and high-end continuous form printers.

For other printers that support IPP, try browsing the HP Jetdirect print server. From a browser, type the HP Jetdirect print server's URL. For example, if the Jetdirect has an IP address of 192.168.109.108, type: http://192.168.109.108 in the browser. After the Embedded Web page is loaded, look at the lower-left hand side of the page for a link to the Internet Printing Install Wizard. If this link is found, the HP Jetdirect print server is IPP enabled

**Situation:**

You and 20 other workers are at a remote location. You run iSeries applications from the local/main site -- but you want the output to print at your remote site.

**Solution:**

Use Internet Printers. The iSeries has an IPP server and an IPP client. The IPP client is an iSeries print driver which is configured in an iSeries printer device description which has an associated iSeries output queue. Once a printer device description has been configured to use IPP, it will show up on the Access for Web 'Internet Printer' list

**Special Request:**

Sometimes I want to view the printer output before it prints. I expect it is fairly straight-forward to set up my application so that it goes to my Internet Printer and prints. Maybe it is the payroll and I want to check it before I print all the checks. How would I get it to a spoolfile where I can view it, then move it to the Internet Printer where it can print?

**How can iSeries Access for Web help me?**

You would have previously set up a device description for an Internet Printer and direct your printer output to that printer.

Using Access for Web, set the printer to 'Hold' and not print.

Now you can go into the Access for Web 'Internet Printers' tab, and click on the specific Internet Printer that you are directing your payroll job to. Click on it and you will get to the output queue for that job.

View your Printer Output using the Access for Web PDF view.

If it all looks well, you can then go back to the Access for Web 'Internet Printer' tab and 'Start' that Internet Printer and let it print.

You could also mail it or stick it in your folder via Access for Web.



<http://myiseries:port/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

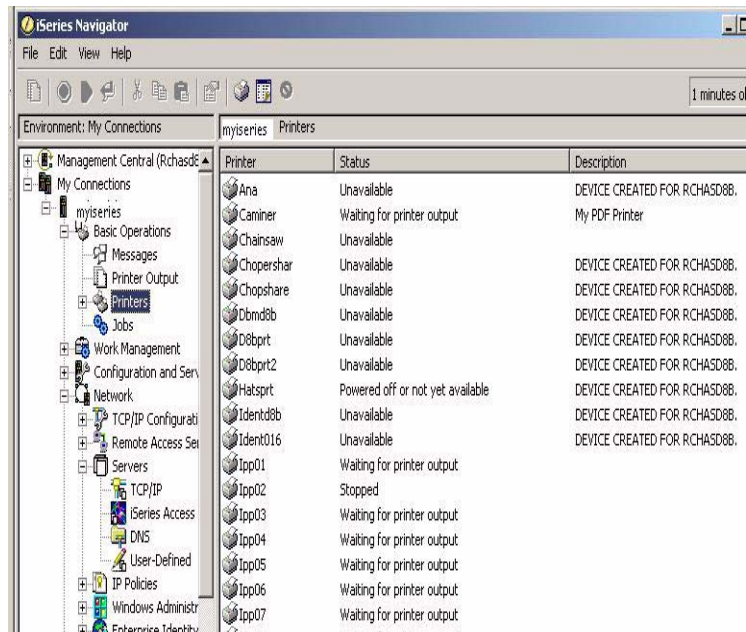
Output Queue	Status	Action	Files	Write
<a href="#">QUSRSYS/PATY</a>	Released	<a href="#">Hold</a>		10
<a href="#">QUSRSYS/PCOMPUTERN</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PJPABLOA</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PPP</a>	Released	<a href="#">Hold</a>		10
<a href="#">QUSRSYS/PRINTD8B</a>	Released	<a href="#">Hold</a>		10
<a href="#">QUSRSYS/PRINTERD8B</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRINTER2</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRINTER8B</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRINTJP</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRJP</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRTA1</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRTCA01</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRTCA02</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRTCA03</a>	Released	<a href="#">Hold</a>		0
<a href="#">QUSRSYS/PRTD8B</a>	Released	<a href="#">Hold</a>		6

# Printer Shares

Use iSeries Navigator to set up Printer Shares

Click on -->

- Basic Operations
- Printers
- Right-click on Printer to set up...



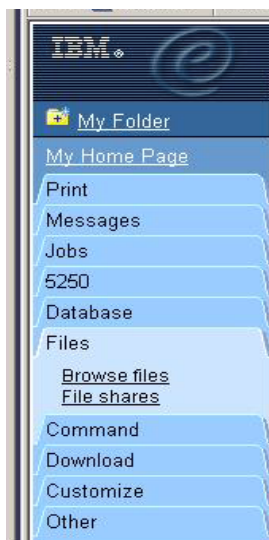
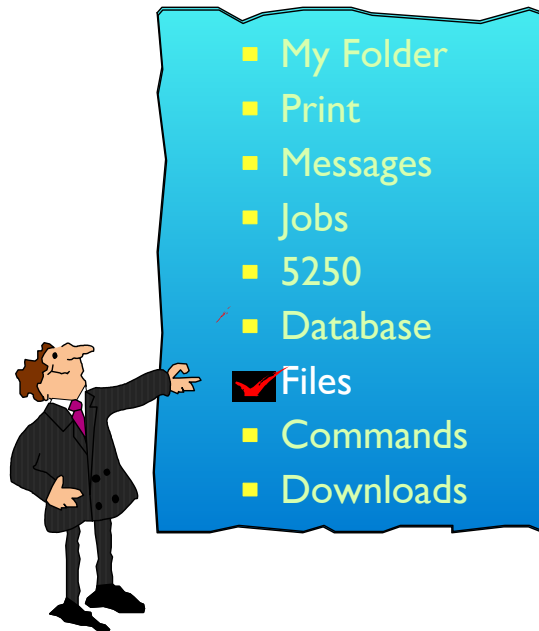
<http://myseries:port/webaccess/iWAPrinterShares>

- 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	Spoiled File Data Type	Users	De
CAMINERSPDF	QUSRSYS/CAMINER		Auto-select	0	My PC
CHAINSAW	QUSRSYS/CHAINSAW		Auto-select	0	Travis
CHOPER	QUSRSYS/CHOPER		Auto-select	0	DEVICE CREA
IPP02	QUSRSYS/IPP02		Auto-select	0	2
IPP03	QUSRSYS/IPP03		Auto-select	0	three
IPP04	QUSRSYS/IPP04		Auto-select	0	ipp04
IWAPRT	QUSRSYS/IWAPRT		Auto-select	0	
PRTD8B5SHARE	QUSRSYS/PRTD8B5		Auto-select	0	DEVICE CREATED FOR
RENATASHARE	QUSRSYS/RENATA		Auto-select	0	Renata E.R. TieLine 877-2896 Guadalajara Testing
RODKEMU	QUSRSYS/RODKEMU		Auto-select	0	DEVICE CREATED FOR
SHARED8B	QUSRSYS/SHARED8B		Auto-select	0	DEVICE CREATED FOR

<http://myseries:port/webaccess/iWAIPPShares>

Share	Output Queue	URL	Printer D
IWAAFP	QUSRSYS/IWAAFP	http://RCHASD8B:631/ipp/printers/IWAAFP	Auto-selec
warrena	QUSRSYS/IPP	http://RCHASD8B:631/ipp/printers/warrena	Auto-selec
USERWITHTA	QUSRSYS/USERWITHTA	http://RCHASD8B:631/ipp/printers/USERWITHTA	Auto-selec
ipp05	QUSRSYS/IPP05	http://RCHASD8B:631/ipp/printers/ipp05	Auto-selec
RENATA	QUSRSYS/RENATA	http://RCHASD8B:631/ipp/printers/RENATA	Auto-selec
JPVALDEZ	QUSRSYS/JPVALDEZ	http://RCHASD8B:631/ipp/printers/JPVALDEZ	Auto-selec
IDENTD8B-INTERPRT	QUSRSYS/IDENTD8B-INTERPRT	http://RCHASD8B:631/ipp/printers/IDENTD8B-INTERPRT	Auto-selec
JEFFPRT1	QUSRSYS/JEFFPRT1	http://RCHASD8B:631/ipp/printers/JEFFPRT1	Auto-selec
ipPRINTD8B	QUSRSYS/PRINTD8B	http://RCHASD8B:631/ipp/printers/ipPRINTD8B	SNA Char
ipp04	QUSRSYS/IPP04	http://RCHASD8B:631/ipp/printers/ipp04	Auto-selec
HATSPRT	QUSRSYS/HATSPRT	http://RCHASD8B:631/ipp/printers/HATSPRT	Auto-selec
ipp03	QUSRSYS/IPP03	http://RCHASD8B:631/ipp/printers/ipp03	Auto-selec
RENIPRINT	QUSRSYS/RENIPRINT	http://RCHASD8B:631/ipp/printers/RENIPRINT	Auto-selec



### Browse files

- 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

### File shares

- View a list of the iSeries NetServer file shares
- Browse the NetServer file shares and navigate the directories from the file share list
- View and download files from a NetServer file share
- Mail files
- Upload files to a read-write file share
- Copy, rename, and delete files and directories in a read-write file share
- Zip and unzip files and directories in a read-write file share
- Edit authorities and change ownership of objects in a read-write file share



<http://myseries:port/webaccess/iWAFileSelect>

● Functions simplified:

- Rename
- Delete
- **Work with**
  - Edit authority
  - Change owner
  - Change primary group
  - Change authorization list
  - Zip / Unzip



Name	Size (bytes)	Type	Modified	Action
\$ELDSHIP		Directory	10/24/2003 04:49:20 PM	Rename Delete Work with
\$ELDTEST		Directory	10/24/2003 04:49:16 PM	Rename Delete Work with
ASFTomcat		Directory	10/22/2003 09:13:29 AM	Rename Delete Work with
bin		Directory	10/21/2003 06:24:28 PM	Rename Delete Work with
boats		Directory	10/23/2003 10:45:53 AM	Rename Delete Work with
cminer		Directory	11/12/2003 01:03:50 PM	Rename Delete Work with
csmith		Directory	10/31/2003 03:48:21 PM	Rename Delete Work with
dev		Directory	10/21/2003 06:24:20 PM	Rename Delete Work with
dib		Directory	10/23/2003 01:57:36 PM	Rename Delete Work with
etc		Directory	10/21/2003 06:24:26 PM	Rename Delete Work with

Action Details

The Browse Files function supports the following actions:

Copy

Use the Copy action to copy a file to another file or directory. The current directory path will be displayed so you can verify that you selected the correct file to copy.

Rename

Use the Rename action to rename a file or directory. The current name will be displayed so you can verify that you selected the correct file or directory.

Delete

Use the Delete action to delete a file or directory. The current directory path is displayed so you can verify you selected the correct file or directory to be deleted. Deleting a directory will delete all of the files in that directory and all of its subdirectories. This action cannot be undone.

Mail

Use the Mail action to send a file to an e-mail address. The current directory path will be displayed so you can verify that you selected the correct file to mail.

Work With

Use the Work With action to access links that will allow you to perform other actions on the file or directory.

Set policy to filter IFS to 'CMINER' folder...

Set a 'Default Directory' for:

- \*PUBLIC
- Groups of users
- Specific user

**Policies - Files**

Profile: **CMINER**

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

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

Actions I can perform:

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

**Directory Contents /cminer**

[Copy Files to Server](#)  
Copy files to the current directory.

[Create Directory](#)  
Create a subdirectory in the current directory.

Found 0 directories. Found 8 files with a total size of 65,567,341 bytes.

Name	Size (bytes)	Type	Modified	Action
<a href="#">Access for Web_V5R2_Redbook</a>	11980602	File	3/2/04 11:55:45 AM	<a href="#">Copy</a> <a href="#">Rename</a> <a href="#">Delete</a> <a href="#">Work with</a>
<a href="#">Access for Web_V5R3_ASF Tomcat Setup</a>	28784	File	3/2/04 11:54:21 AM	<a href="#">Copy</a> <a href="#">Rename</a> <a href="#">Delete</a> <a href="#">Work with</a>
<a href="#">Access For Web_V5R3_Printing Made Easy.PRZ</a>	45203956	File	3/2/04 12:06:59 PM	<a href="#">Copy</a> <a href="#">Rename</a> <a href="#">Delete</a> <a href="#">Work with</a>
<a href="#">Access for Web_V5R3_Setup Guide</a>	558327	File	3/2/04 11:54:06 AM	<a href="#">Copy</a> <a href="#">Rename</a> <a href="#">Delete</a> <a href="#">Work with</a>

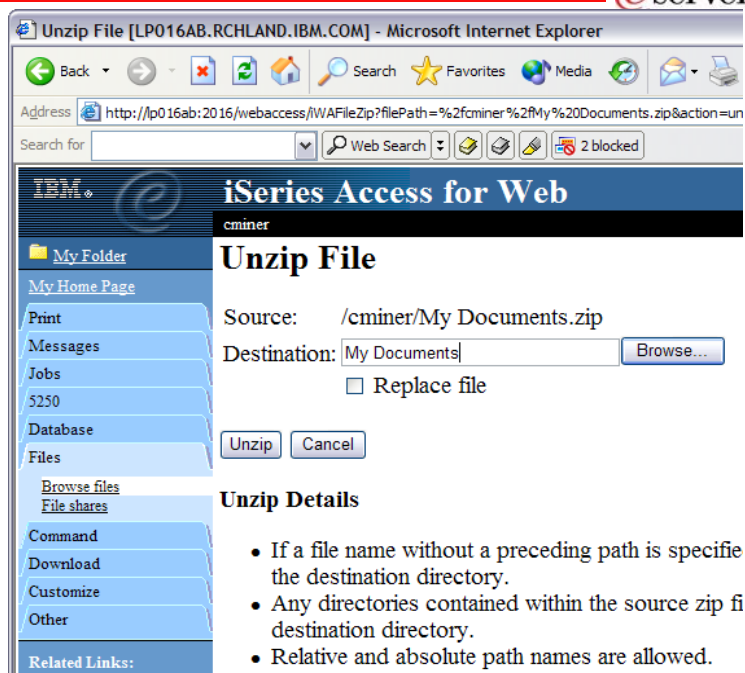
- Working with PC files:
  - View data in your browser
    - For example, look at a Microsoft Word document
  - Click on file and then save it on your PC
    - You can then work with file using appropriate PC application then copy it back to IFS with Access for Web



- Working with PC directories:
  - You can create a folder (subdirectory) on IFS, but you can only copy files (not folders) into the IFS using Access for Web
  - You can 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

- 'Zip' and 'Unzip' - new V5R3 functions
  - Use 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.*



- If a file name without a preceding path is specified the destination directory.
- Any directories contained within the source zip file destination directory.
- Relative and absolute path names are allowed.



## 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
CMNER		0	Read / Write
QDIRSRV	OS/400 -- Directory Services	0	Read / Write
QIBM	IBM Product Directories	0	Read / Write
QNTC		0	Read Only
ROOT		1	Read / Write

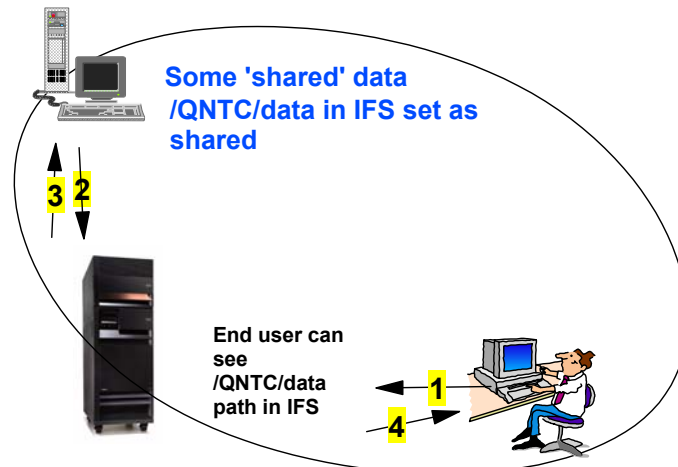


## File Shares shows NetServer view of IFS...



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

- [LOTUS](#)
- [PSFSMTP](#)
- [QDLS](#)
- [QFileSvr.400](#)
- [QIBM](#)
- [QNetWare](#)
- [QNTC](#)
- [QOpenSys](#)
- [QOPT](#)
- [QSR](#)
- [QSYS.LIB](#)
- [QTCPTMM](#)
- [SF99148](#)
- [SF99245](#)
- [SF99271](#)



**Use NetServer share**

1. You can also create a NetServer share to work with files in the IFS directory

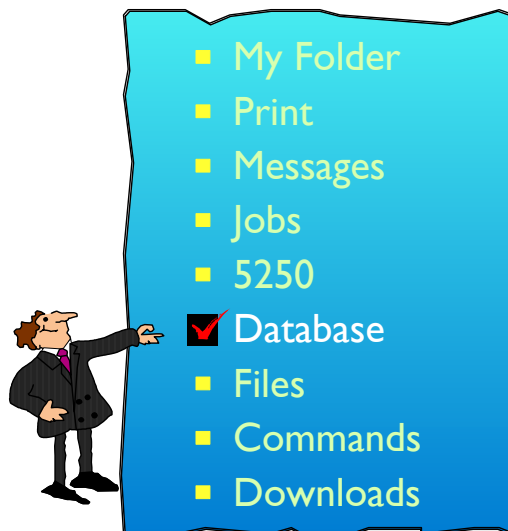
**Use QNTC function to map an IFS directory to a Windows share:**

Note: This example is setting a directory on your PC to be shared with others. They will be able to see this directory when they use Access for Web Files / Browse Files and they will see it if they go directory to iSeries server using My Computer function from desktop.

1. Make sure your iSeries user profile and password are exactly the same as your Windows user id and password.
2. Make sure NetServer is started on the iSeries. You can do that through iSeries Navigator (or, there are CL commands on V5R3 systems).
3. On the iSeries, in the IFS, make a new directory under '/QNTC' that is the name of your PC. For example, the name of my PC is cminer, so I would issue a mkdir '/qntc/cminer' on the green screen.
4. Make sure that you have file sharing enabled on your PC.

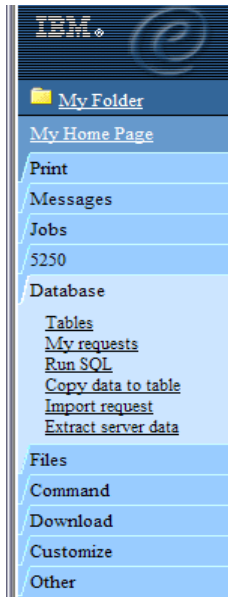
On Windows 2000 and XP: Click on Windows Control Panel, go to Network and Dial-up connections, and right-click Properties on your connection. The dialog box should list several checked components. One of them should be "File and Printer Sharing for Microsoft Networks." If not, you have to add it as a new protocol using the "Install..." button.

5. Make sure you have a directory shared out on your PC. You can right-click on any folder in Windows and do "Sharing..." to create the share.
6. You can use WRKLNK or QShell or Access for Web or iSeries Navigator to see what file shares exist for cminer in /qntc/cminer.



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



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

- **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**

Tables

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

My requests

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

Run SQL

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

Copy data to table

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

Import request

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

### SQL Output Details

When the SQL statement is run, the output is displayed in the browser, or it can be loaded using another application or saved to a file. The output behavior is dependent on the selected SQL output type and on the current browser settings. Most output types support settings for additional output customization. The following output types are supported:

- Preview - Paged-table list format, displayed in the browser. The maximum number of rows returned in the list can be limited, using Customization to set a database preference.
- Comma Separated Value -Text format where fields are separated by commas.
- Data Interchange Format - Format that represents data in rows and columns. The DIF format is used for data interchange between spreadsheet programs and other application programs.
- Hyper Text Markup Language - Format commonly used by internet browsers. The rows per table setting controls whether the output is returned as a paged-list, similar to the preview type, or as a single HTML page.
- Lotus 1-2-3 Version 1- Format used by Lotus 1-2-3 Version 1. The generated output can also be used with newer versions of the Lotus 1-2-3 application. Output is truncated to 8192 rows, since 8192 rows is the maximum sheet size supported by the Lotus 1-2 3 version 1 format.
- Microsoft Excel 3 - Binary Interchange File Format used by Microsoft Excel 3. The generated output can also be used with newer versions of the Microsoft Excel application. Output is truncated to 16384 rows, since 16384 rows is the maximum number of rows supported by the Microsoft Excel 3 format.

- Microsoft Excel 4 - Binary Interchange File Format used by Microsoft Excel 4. The generated output can also be used with newer versions of the Microsoft Excel application. Output is truncated to 16384 rows, since 16384 rows is the maximum number of rows supported by the Microsoft Excel 4 format.
- Text - Plain Plain text format used for editing, displaying and printing. No separator characters are placed between the fields of data.
- Text - Tab Delimited Text format where fields are separated by tab characters.

### Format Details

The format settings control how values in date and time columns are returned.

Available formats are the short, medium, long, and full formats for the current language. The standard ISO date and time formats are also available.

Some languages do not support four different date and time formats. Therefore, some entries in the format lists can be identical.

### Connection Details

The connection setting controls the database connection used to run the SQL statement.

Database connections can be defined by the system administrator, using Database Customization

### Database enhancements

Access for Web enables you to work with the iSeries database through a pure SQL interface. Access for Web provides wizards for building the SQL request, wizards for directly updating a database table, or drop database output into an Excel spreadsheet, and much more. Most useful is that the iSeries administrator can create database requests, and then through OS/400 user/group profiles enable end users to run only the database requests that they have been granted access to. (see article written by Janet Weber)

New in the V5R3 version of Access for Web are:

Prompted Requests - the V5R2 version of Access for Web enables one to build an SQL request, save it, and rerun it -- as well as making it available to others to run. With the beta Access for Web one can now build a request that will prompt the end user for one or more conditional values (such as customer number, part number, telephone number, etc) when the request is run. The results of the request can be viewed in the end user browser, attached to an email, shown in an Excel spreadsheet, or put in a file or Personal Folder. The Access for Web SQL Wizard has been enhanced to build these prompted requests. You can also use the 'Run SQL' action to manually create statements with parameter markers (Note: values for the parameter markers must be supplied using an HTML form or URL parameters when the request is run).

Support for the XML spreadsheet format used by Microsoft Excel 2002 - both the Run SQL and Copy Data to Table now support this. 'Extract Server Data' - is a new action under the Database tab. 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 (see Figure 8). For example, I could easily build a query to find out what users have used more than 100 MB of storage in the IFS, or I might want to know what users have had more than 2 invalid signon 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.



http://<myseries>/webaccess/iWADbRequests

**My Requests**

Request	Description	Action	Shortcut	Created By	Access
A ShortCust	Select from the Parts table - Looking for NULL Descriptions	<a href="#">Run Copy</a>	Yes	wademo	*PUBLIC
bargains		<a href="#">Run Copy</a>	Yes	boatadmin	*PUBLIC
QCUST Balance Due	Check for balance due over 5	<a href="#">Run Copy</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Create</a> <a href="#">shortcut</a> <a href="#">Edit</a>	No	cmminer	cmminer
Shortcut to Customer List	All customers - output to Excel	<a href="#">Run Copy</a>	Yes	jrbaue	*PUBLIC
Shortcut to My Upload Request		<a href="#">Run Copy</a>	Yes	wa01	*PUBLIC
short hello		<a href="#">Run Copy</a>	Yes	jek	*PUBLIC
ShortUpload		<a href="#">Run Copy</a>	Yes	jek	*PUBLIC
terryShort		<a href="#">Run Copy</a>	Yes	jek	*PUBLIC



**Copy Data to Table**

File to Copy  
 File:  [Browse...](#)  
 File type: Comma Separated Value (.csv) [Settings](#)  
 Table to  
 Table:   
 Action:  Replace  Append  
 Connection: IBM Toolbox for Java - LP016AB.RCHLAND.IBM.COM

[Copy Data to Table](#) [Save Request...](#)

Upload data from a variety of file types

- Excel, XML, Lotus, etc

Put into iSeries database

- 'Replace' contents of table
- 'Append' to existing data





- Run SQL allows you to dynamically run SQL statements
- Could copy/paste complex SQL statements in here...
- Includes SQL Wizard for user who doesn't know SQL

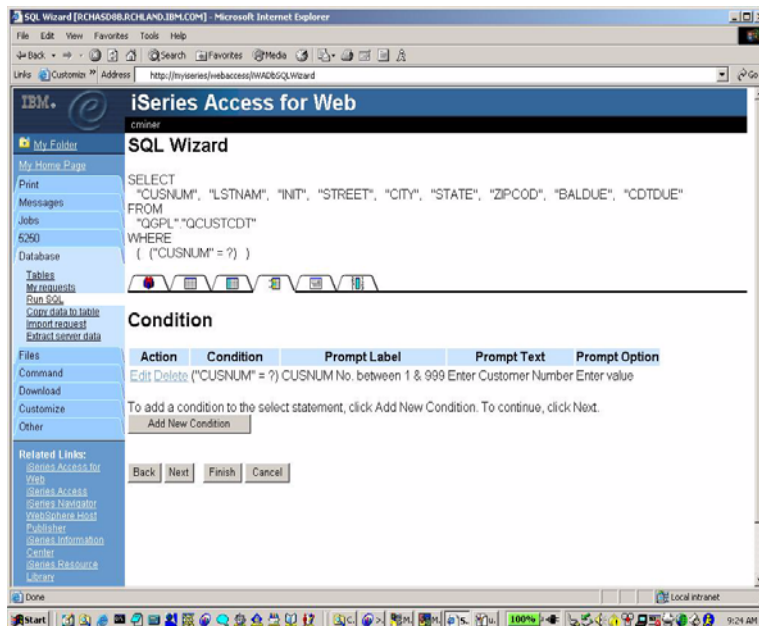


**Many Output Types, including:**

- XML, XLS, WK1, PDF

**Destinations include**

- Browser
- email as an attachment
- Personal folder

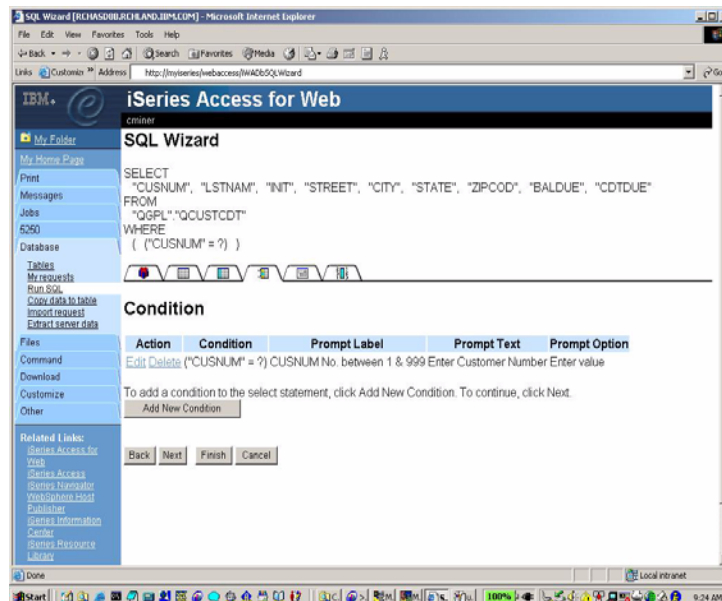


SQL Wizard enables you to:

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

**Support for dynamic database queries**

- The SQL Wizard now 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.



Run SQL - Microsoft Internet Explorer

Address: http://myseries/webaccess/WADbExec?access=cminer&request=Prompt%20

IBM iSeries Access for Web

Run SQL

Enter Customer Number

CUSNUM No. between 1 & 999:

OK Cancel

SQL Output [RCHASD8B.RCHLAND.IBM.COM] - Microsoft Internet Explorer

Address: http://myseries/webaccess/WADbExec?access=cminer&request=Prompt%20

IBM iSeries Access for Web

SQL Output

[[ [1]]

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	BALDUE	CTDUE
500	123456	DA	Algonquin0	Roch M		55901	0.00	0.00

[[ [1]]

Tables - Microsoft Internet Explorer

Address: http://rchas1dd/webaccess/WADbTables

5250 Tables filter: \*USRLIBL

Table	Description	Action
QGPL.BASICCSV		<a href="#">Insert</a> <a href="#">Update</a> <a href="#">Quick view</a> <a href="#">Run SQL</a> <a href="#">Copy data to table</a>
QGPL.LK_105KTMM		<a href="#">Insert</a> <a href="#">Update</a> <a href="#">Quick view</a> <a href="#">Run SQL</a> <a href="#">Copy data to table</a>
QGPL.QAOEFFVL	FORM FIELD VALID VALUES FILE	<a href="#">Insert</a> <a href="#">Update</a> <a href="#">Quick view</a> <a href="#">Run SQL</a> <a href="#">Copy data to table</a>
QGPL.QASUUSRPMT		<a href="#">Insert</a> <a href="#">Update</a> <a href="#">Quick view</a> <a href="#">Run SQL</a> <a href="#">Copy data to table</a>
QGPL.QCLSRC	DEFAULT SOURCE DATA BASE FILE FOR CL SOURCE	<a href="#">Insert</a> <a href="#">Update</a> <a href="#">Quick view</a> <a href="#">Run SQL</a> <a href="#">Copy data to table</a>
QGPL.QCMDSRC	DEFAULT SOURCE DATA BASE FILE FOR CMD DEF SRC	<a href="#">Insert</a> <a href="#">Update</a> <a href="#">Quick view</a> <a href="#">Run SQL</a> <a href="#">Copy data to table</a>

The screenshot shows the iSeries Access for Web interface. On the left is a navigation menu with options like 'My Folder', 'My Home Page', 'Print', 'Messages', 'Jobs', '5250', 'Database', 'Tables', 'My requests', 'Run SQL', 'Copy data to table', 'Import request', 'Files', 'Command', 'Customize', and 'Other'. The main area displays a 'Quick View of QGPL.QCUSTCDT' table with columns: CUSNUM, LSTNAM, INIT, STREET, CITY, STATE, ZIPCOD, and C. Below the table is an 'Update Record' form with a table of fields:

Column	Type	Value	Description
CUSNUM	NUMERIC(6,0)	938472	Customer number field
LSTNAM	CHAR(3)	Henning	Last name field
INIT	CHAR(3)	G K	First and middle initial field
STREET	CHAR(13)	4659 Elm Ave	Street address field
CITY	CHAR(6)	Dallas	City field
STATE	CHAR(2)	TX	State abbreviation field
ZIPOOD	NUMERIC(5,0)	75217	Zip code field
CDTLMT	NUMERIC(4,0)	6000	Credit limit field
CHGOOD	NUMERIC(1,0)	3	Charge code field
BALDUE	NUMERIC(6,2)	37.00	Balance due field
CDTDUE	NUMERIC(6,2)	0.00	Credit due field

At the bottom of the update form is an 'Update Record' button. A yellow arrow points from the 'Update Record' button in the form to the 'Update Record' button in the table above.

- Many things you can look at on OS/400
- New in V5R3 version

The screenshot shows a web browser window displaying the 'Extract Server Object Data' page. The browser's address bar shows 'http://myseries030/webaccess'. The page content includes a list of system objects:

- Directory entries
- Messages
- Software fixes
- Software fixes - APAR
- Software fixes - requisite fixes
- Software fixes - symptom strings
- Software products
- System pool
- User profiles
- 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 - C/400 locale description
- System object - class
- System object - command
- System object - connection list
- System object - class-of-service description
- System object - cluster resource group
- System object - change request description
- System object - communications side information
- System object - controller description
- System object - distributed file directory
- System object - device description
- System object - directory
- System object - document

On the left side of the browser window, there is a navigation menu with options like 'My Folder', 'My Home Page', 'Print', 'Messages', 'Jobs', '5250', 'Database', 'Tables', 'My requests', 'Run SQL', 'Copy data to table', 'Import request', and 'Extract server data'. A yellow arrow points from the 'Extract server data' link in the menu to the 'Extract server data' link in the browser's address bar.



- 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 signon 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.



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

- **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 **Mail** function with **My Folder** function 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

**New 'My Folder' Support**

The V5R2 iSeries Access for Web provides a new My Folder concept that enables items to be placed in a user's Personal Folder. A current user or another user may place items in a Personal Folder. The Personal Folder is particularly attractive if you have a long-running task to perform as rather than tying up your browser waiting for it to complete. You might use the My Folder support to perform requests for someone else or to distribute results to a group of users as you can simply indicate to send the results to the Personal Folders when it completes. The Personal Folder that can be accessed via the "My Folder" link in the navigation pane, and it special icons will display to represent if there are items that have been placed in the Personal Folder as well as if there are any new/unopened items. The following types of items can be sent to a personal folder.

- SQL output generated by Run SQL
- PDF output created from Printer output
- Command completion status generated by Run Command (can only be sent to a user's own Personal Folder)

My Folder can contain items with the following information: Item description, Status, From, Data/Time, and Size. It has an 'Actions' column that lists the available actions for items in the folder. You would be able to perform actions, such as: Mark All Opened, Mark All Unopened, Delete all Opened items, Delete all items, and Delete Selected items

The screenshot shows the 'iSeries Access for Web' interface. The user is logged in as 'cminer'. The page title is 'PDF Output Settings'. On the left, there is a navigation menu with 'My Folder' selected. The main content area shows a 'Destination:' dropdown menu with 'Browser' selected. Below it is an 'Advanced' section with a 'Run' button. A 'Destination Details' section explains that this specifies the destination for newly created PDFs. The 'Browser' option is highlighted.

**Destination:** Browser [Settings ?]

Advanced

Run

**Destination Details**

Specifies the destination of the newly created PDF to the following options:

**Browser**

The screenshot shows the 'iSeries Access for Web' interface with a dialog box titled 'Browse Folder Owners'. The dialog lists various folder owners with their names and IDs. The 'OK' and 'Cancel' buttons are visible at the bottom.

**Browse Folder Owners**

Folder owners:

- CELIAD (Celina Gutierrez user testing TL877-2758 GDLXD1)
- CELINA (Celina Magallanes - Gdl Testing 877-2758)
- CMINER (Carole Miner 3-4606)
- COOLGROUP (Janet Weber 3-1811)
- CSKY (Carl Pecinovsky (3-3861))
- CSMITH (Chris Smith - 3-4127 - WebAccess / Toolbox)
- CSMITHTMP
- DANG (Dan Gathje 3-5696)
- DANNY (Dan Moravec 3-0904)
- DANNY2 (Dan Moravec 3-0904)
- DAW (David Wall 3-5329)
- DAWALL (Dave Wall 3-5329)
- DBM (Dave Murray)
- DEMOUSERS
- DEMOUSER1

OK Cancel

**iSeries Access for Web**  
 cminer LP016AB.RCHLAND.IBM.COM

**My Folder**

My Home Page  
 Print  
 Messages  
 Jobs  
 5250  
 Database  
 Files  
 Command  
 Download  
 Customize  
 Other

Related Links:  
 iSeries Access for Web  
 iSeries Access  
 iSeries Navigator  
 WebSphere Host  
 Publisher  
 iSeries Information  
 Center

Item	Status	From	Date/Time	Size	Action
<input type="checkbox"/> Status [SQL output in TXT]	Unopened	cminer	1/7/04 3:39 PM	235	<a href="#">Open</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Copy</a> <a href="#">Copy to file</a> <a href="#">Mail</a> <a href="#">Mark opened</a>
<input type="checkbox"/> SQL output in TXT	Unopened	cminer	1/7/04 3:39 PM	14359	<a href="#">Open</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Copy</a> <a href="#">Copy to file</a> <a href="#">Mail</a> <a href="#">Mark opened</a>
<input type="checkbox"/> QSYS/WRKACTJOB	Unopened	cminer	1/7/04 3:04 PM	51	<a href="#">Open</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Copy</a> <a href="#">Copy to file</a> <a href="#">Mail</a> <a href="#">Mark opened</a>
<input type="checkbox"/> Printer output in PDF	Unopened	cminer	1/7/04 3:02 PM	13179	<a href="#">Open</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Copy</a> <a href="#">Copy to file</a> <a href="#">Mail</a> <a href="#">Mark opened</a>
<input type="checkbox"/> Printer output in PDF	Unopened	cminer	1/7/04 2:52 PM	13179	<a href="#">Open</a> <a href="#">Delete</a> <a href="#">Rename</a> <a href="#">Copy</a> <a href="#">Copy to file</a> <a href="#">Mail</a> <a href="#">Mark opened</a>

Delete Selected Items

**Policies - My Folder**  
 Profile: CMINER

Policy	Derived From
My Folder access	Shipped default
My Folder link	Shipped default
Create folder items	Shipped default
Rename folder items	Shipped default
Copy folder items	Shipped default
Copy folder items to file	Shipped default
Mail folder items	Shipped default
Mark folder items opened/unopened	Shipped default
My Folder notification	Shipped default
Notify on new folder items	Shipped default
Notify on folder	

Use current setting | Allow | Yes | E-mail and Sametime | Yes

Carole Miner - Inbox - Lotus Notes

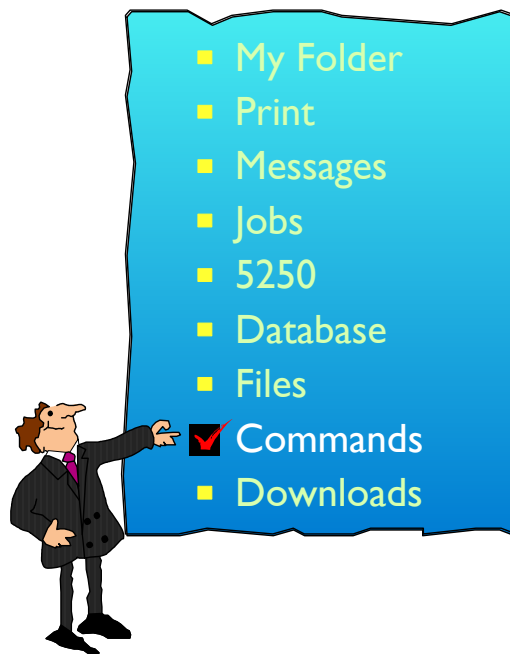
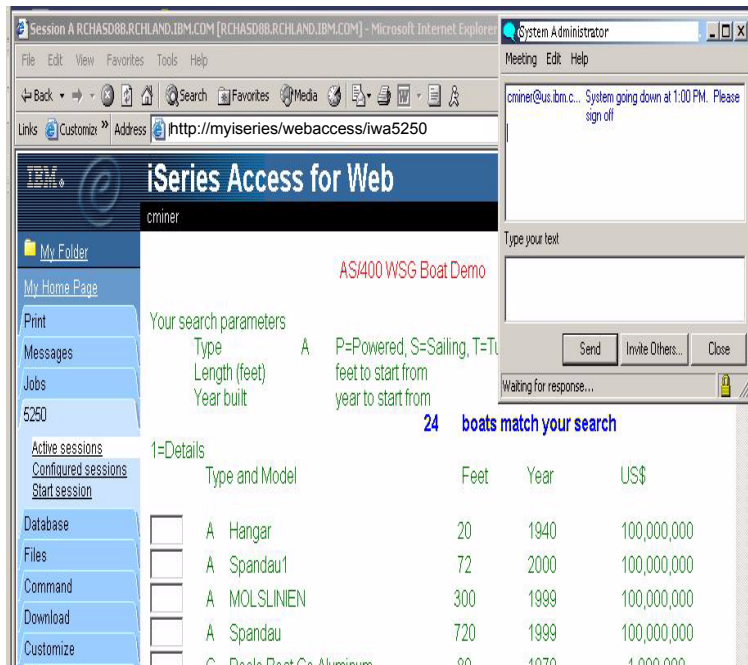
Who	Date	Size	Subject
Carole Miner	01/07/2004 03:41 PM	2,565	New Folder Item - Status [SQL output in TXT]
Carole Miner	01/07/2004 03:41 PM	2,541	New Folder Item - SQL output in TXT
Cecelia Manrese	01/07/2004 03:33 PM	3,242	iSeries Team Dinner at SGU
Carole Miner	01/07/2004 03:05 PM	2,529	New Folder Item - QSYS/WRKACTJOB
Carole Miner	01/07/2004 03:03 PM	2,548	New Folder Item - Printer output in PDF
Carole Miner	01/07/2004 02:54 PM	2,550	New Folder Item - Printer output in PDF
Linda Gigolek	01/07/2004 02:39 PM	90,629	*IBM Confidential: Recap of 1/7 Meeting
NEWS Wire Daily	01/07/2004 02:37 PM	26,917	NEWS Wire Daily - January 7, 2004





You can integrate the use of Lotus Sametime (an add-on to Domino)

- Users can then be notified via a Sametime pop-up when something has been added to their Personal Folder



The Command tab enables you to run batch-level iSeries commands. New in V5R2 iSeries Access for Web, you can now also search for CL commands on the iSeries, and save commands you have previously run. Interactive commands can be prompted and run as well, but you receive only success or failure from the iSeries server; however if you specify \*PRINT for the output you could then view the spooled file output of the interactive command using the iSeries Access for Web Print function.

**Search and prompting** - you can search for specific CL commands to run by either providing a partial command name (i.e. DSP\*) or providing words contained in command text descriptions (i.e. user profile). Commands matching the search criteria are returned in a list. When an incomplete command is specified, the Command function supports prompting the command to help a user complete the command. In addition to the basic prompting function, the command prompter page also displays help for individual parameters of a command in a separate browser window.

**My Commands** - a 'Save' action on a previously run command allows you to name and save a command for later use, and then access it through the My Commands tab. You can additionally overwrite an existing command and create a new command

**Run Command** - enables you to run a new command or select a previously run command from the Previous Commands list.

Although the Commands function is primarily designed to run batch commands, you could run an interactive command (ie, one that is sending back input or something you want) and tell the interactive command to send its results to \*PRINT. Then once that command ran and it put the result on the printer output file, you could use the Print, 'Print Output' function and look at the results of that interactive command). You can select any of the following output types for the completion status message:

- o Browser - you can send the completion status to your browser
- o Mail - you can e-mail the completion status message to your e-mail address
- o Folder - you can save the completion status message in your Personal Folder

An advantage of sending command completion status as an e-mail attachment or to a Personal folder is that the command is submitted in the background, and the browser page is updated immediately with a message saying the command was submitted. Using these new output options enables users to submit additional Run Command requests without having to wait for the current command to complete

**Search for Commands**

Command:  ?

Library:  ?

Search by:

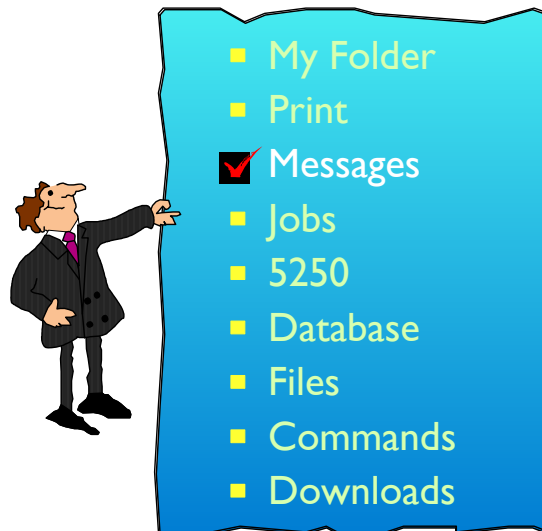
Command name  Text description ?

Command	Library	Description
<a href="#">WRKACTJOB</a>	QSYS	Work with Active Jobs
<a href="#">WRKNETJOB</a>	QSYS	Work with Network Job Entries
<a href="#">DSPACTPJ</a>	QSYS	Display Active Prestart Jobs
<a href="#">WRKJOBIS</a>	QSYS	Work with Jobs using JS

**Work with Active Jobs (WRKACTJOB)**

Output:  ?

Output:  ?



**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 Message**

To users:

To message queues:

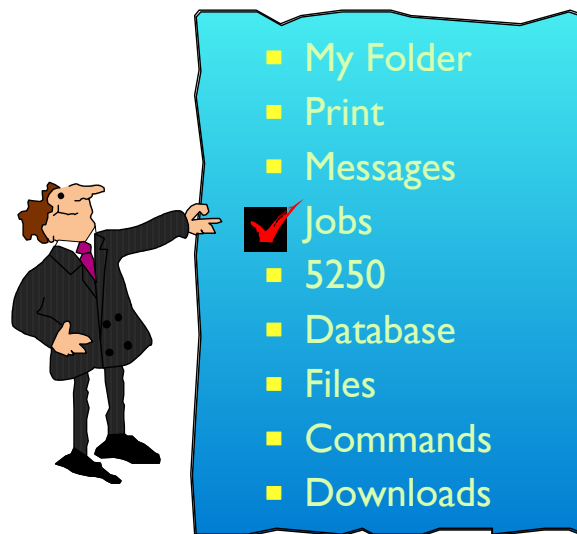
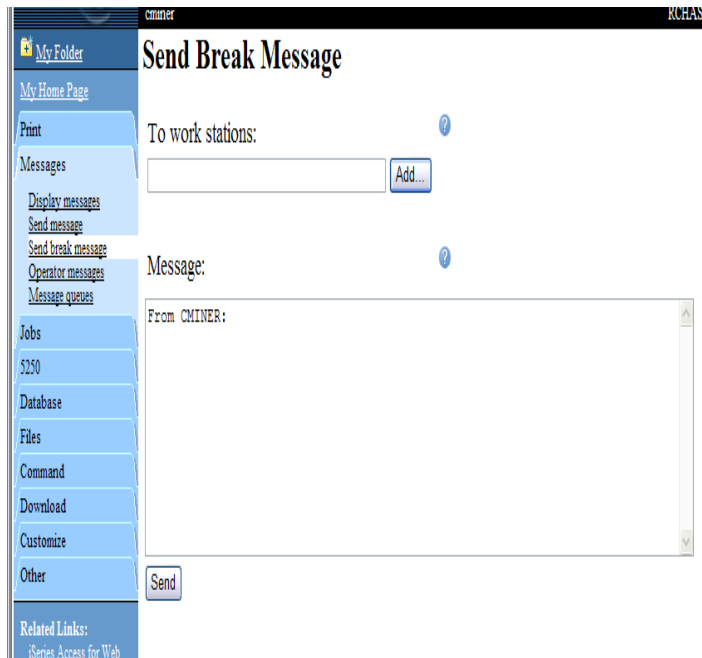
From: QUSRSYS/WUSER

Message type:  Informational  Inquiry

Message:

Note: Use either system naming (mylib/mymsgq) or simply mymsgq

- **Send a break message to iSeries work stations**
  - **Specify \*ALLWS to send the message to all configured work stations, or enter one or more iSeries work station device names separated with commas**
  - **Use Add... to retrieve the list of work stations configured on the server**
- **Send a Sametime announcement to iSeries Access for Web Sametime users**



Jobs [RCHAS1DD.RCHLAND.IBM.COM] - Microsoft Internet Explorer  
 Address: http://rchas1dd:2012/webaccess/iWAJobList?jobtype=server

### Server Jobs for cminer

Job	Detailed Status	Server	Run Priority	Thread Count	Action
QGYSERVER	Waiting for dequeue	OS/400 Open List Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QPWFSEVS0	Waiting for dequeue	OS/400 TCP File Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZDASOINIT	Waiting for dequeue	OS/400 TCP Database Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZDASOINIT	Waiting for dequeue	OS/400 TCP Database Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZRCSRVS	Waiting for message	OS/400 TCP Remote Command Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZRCSRVS	Waiting for message	OS/400 TCP Remote Command Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZRCSRVS	Running	OS/400 TCP Remote Command Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZSCSRVS	Waiting for time interval	OS/400 TCP Central Server	20	1	<a href="#">Hold</a> <a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>

iSeries Access for Web  
 cminer LP016AB.RCHLAND.IBM

### Jobs for cminer

Job	Status	Type	Entered System	Action
CMINER0	Completed	Interactive	1/5/04 11:46:30 AM	<a href="#">Printer Output</a> <a href="#">Properties</a>
QPADEV000H	Ended	Interactive	1/7/04 3:17:17 PM	<a href="#">Printer Output</a> <a href="#">Properties</a>
QPRTJOB	Completed	Batch print	11/13/03 10:01:40 AM	<a href="#">Printer Output</a> <a href="#">Properties</a>

[Jobs preferences](#)  
 Customize job list preferences

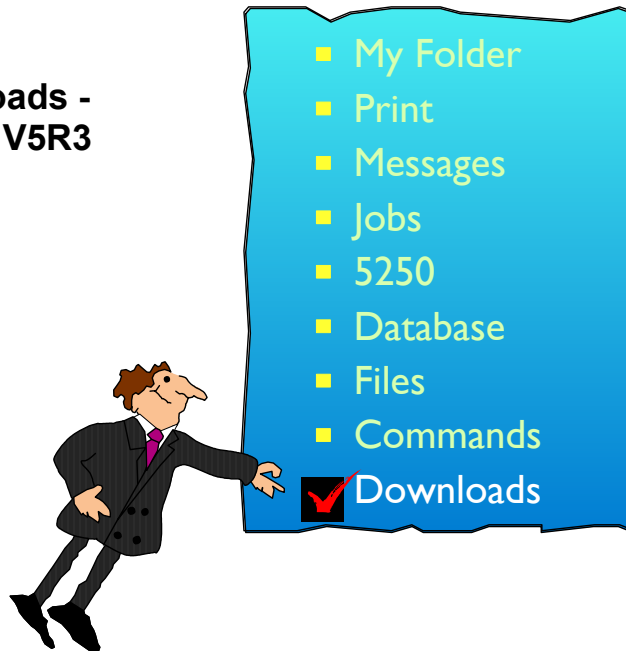
**Jobs Preferences - set Job List filter for:**

- All jobs, Active jobs, Active jobs and waiting to run, Jobs waiting to run, Completed jobs

- Can list and manage server jobs on my iSeries server
- Can view job logs for server jobs

Server Jobs for cminer						
Job	Detailed Status	Server	Run Priority	Thread Count	Action	
QGYSERVER	Waiting for dequeue	OS/400 Open List Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QPWFERSVSO		OS/400 TCP File Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZDASOINT	Waiting for time interval	OS/400 TCP Database Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZRCRSVS	Waiting for time interval	OS/400 TCP Remote Command Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZRCRSVS	Running	OS/400 TCP Remote Command Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZSCSRVS	Waiting for time interval	OS/400 TCP Central Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>
QZSCSRVS	Waiting for time interval	OS/400 TCP Central Server	20	1	<a href="#">Hold</a>	<a href="#">Delete/End</a> <a href="#">Job Log</a> <a href="#">Properties</a>

Downloads - New in V5R3

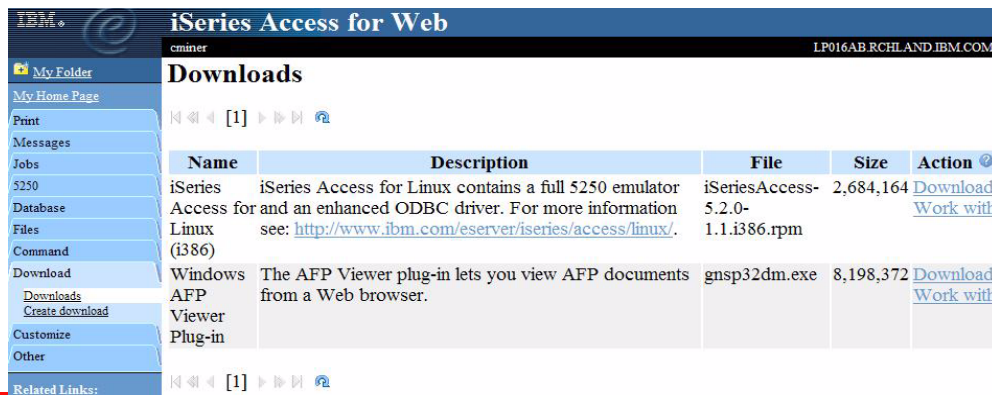




- Use downloads for managed file distribution with iSeries Access for Web.
  - A download is a file stored on the iSeries server that is made available for distribution through iSeries Access for Web
    - Some IBM products are available as iSeries Access for Web downloads.
    - You can also create your own downloads
      - Great way for users to install iSeries Access for Windows. Create a Tailored Install (ie, just the functions you want users to have and let them download just those pieces)
      - Great way to get other desktop applications to your users.
  - A set of management functions are provided for updating downloads and for controlling access to them.

<http://myiseries:port/webaccess/iWAPackages>

- These downloads are shipped with Access for Web
  - You can create your own download files too.
  - 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. 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.
  - Users simply click on 'Download' link to install





- Want to make the iSeries Access for Windows ODBC driver to my end users

- Run CWBINIMG.BAT. This program is in : \myseries\qibm\ProdData\CA400\Express\Install\Image
- Then zip up the directory that gets created

- 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.

- Use Create Download to make a file available for distribution. The file iSeries Access for Web is running. After the download is created, it is

- 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

**Work With Download**

Name: ODBC Driver V5R2  
 Description: ODBC Driver V5R2  
 File: ODBC Driver V5R2.zip  
 Size: 26,779,360  
 Last updated: Mar 4, 2004 10:19:32 AM

**Action**

- [Edit name and description](#)
- [Update file](#)
- [Delete](#)
- [Manage access](#)

- **Deny Access** defaults to 'no' Access for Web user will be able to download this new option
- Now selectively **Allow Access** to those who have an iSeries user/group profile to use it

**Manage Access**

Name: ODBC Driver V5R2  
 Description: ODBC Driver V5R2  
 File: ODBC Driver V5R2.zip  
 Size: 26,779,360  
 Last updated: Mar 4, 2004 10:19:32 AM

Allow Access	Deny Access	Manage
cminer	*public	cminer
<input type="button" value="Add..."/>	<input type="button" value="Add..."/>	<input type="button" value="Add..."/>
<input type="button" value="Remove"/>	<input type="button" value="Remove"/>	<input type="button" value="Remove"/>

**Add User**

User:

- All users
- AHOMIKE [Mike AhoR]
- ALICIAM [Alicia Martin]
- ALKORN [Amanda L. T.]
- ANDREWIS [Greg Andr.]
- ATOMKO [Ana Tomko]
- OBRANDT [Christopher]
- CHRISB [Chris Brandt]
- CMINER [Carole Miner]
- CSMITH [Christopher S.]
- DB2XML [5722DE1 - XI]
- DHQB [PW changed w.]
- DLB [Doug Beauchene]
- DOUGB [Doug Beauch.]
- EFLORES [Daniel Edu.]

'Add...' gives you list of users/groups on iSeries



# Set up who can access and manage this download...



- Gave all users access to this ODBC Driver install
- Added users who can manage this download

**5**



# End users can now access downloads...

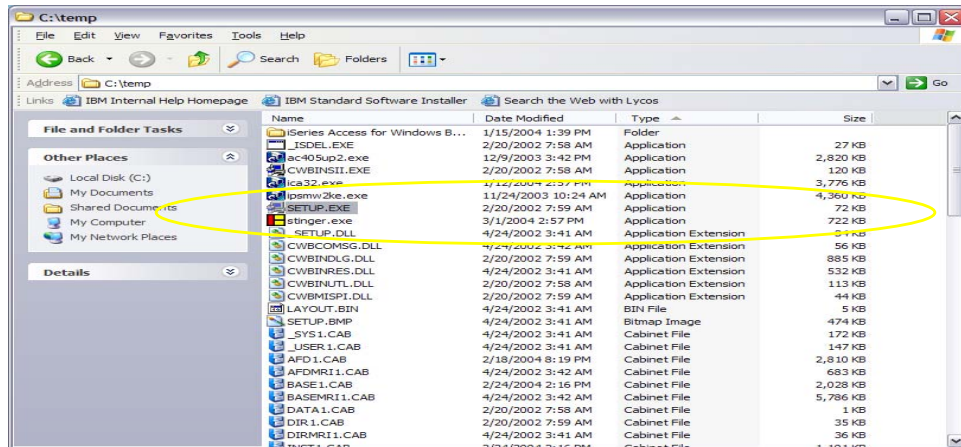


- Users can come directly to this page to download the Access for Windows package (<http://myseries:port/webaccess/iWAPackages>)
- Or navigate to **Downloads**

**1**

Name	Description	File	Size	Action
iSeries Access for Linux (i386)	iSeries Access for Linux contains a full 5250 emulator and an enhanced ODBC driver. For more information see: <a href="http://www.ibm.com/eserver/iseries/access/linux/">http://www.ibm.com/eserver/iseries/access/linux/</a> .	iSeriesAccess-5.2.0-1.3.i386.rpm	2,593,887	<a href="#">Download</a> <a href="#">Work with</a>
iSeries Access for Linux (PPC)	iSeries Access for Linux contains a full 5250 emulator and an enhanced ODBC driver. For more information see: <a href="http://www.ibm.com/eserver/iseries/access/linux/">http://www.ibm.com/eserver/iseries/access/linux/</a> .	iSeriesAccess-5.2.0-1.3.ppc.rpm	2,750,340	<a href="#">Download</a> <a href="#">Work with</a>
ODBC Driver V5R2		ODBC Driver V5R2.zip	26,779,360	<a href="#">Download</a> <a href="#">Work with</a>
Windows AFP Viewer Plug-in	The AFP Viewer plug-in lets you view AFP documents from a Web browser.	gnsp32dm.exe	6,459,708	<a href="#">Download</a> <a href="#">Work with</a>

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



## Action Details

The Downloads function supports the following actions:

### Download

Use the Download action to download the file to your workstation. You may be given the option to save the file to your workstation or to open the file.

### Work with

Use the Work with action to manage your downloads. This action is only available if you created the download, you have been granted authority to manage the download, or you have \*SECADM special authority. The following actions can be performed on the download:

### Edit name and description

Use the Edit name and description action to modify the name and description of the download.

### Update file

Use the Update file action to change the file to download. For example, this can be used to replace the file to download with a newer version.

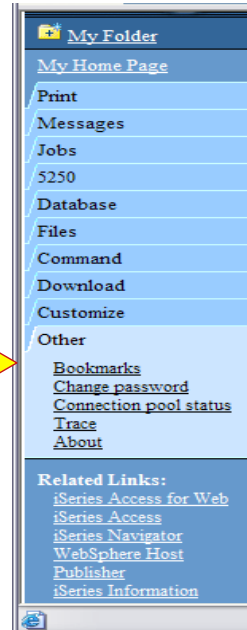
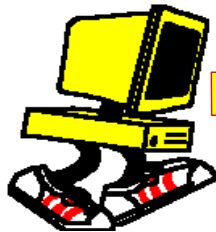
### Delete

Use the Delete action to remove the file from the server and from the list of available downloads.

### Manage access

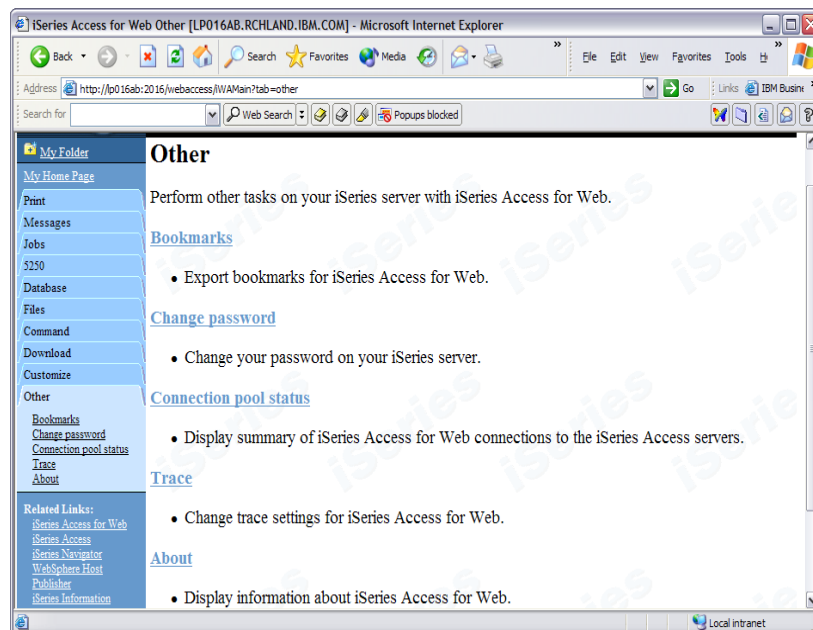
Use the Manage access action to control access to the download. When a download is created, it can only be accessed by the user who created it and by users with \*SECADM authority. Manage access is used to make the download available to other users.

# Other



## Under the 'Other' tab...

- **Bookmarks**
- **Change iSeries password**
- **Connection pool status**
- **Trace**
- **About**



- Good information for load balancing your iSeries
- How many users been on with Access for Web started?
- 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:	2	Total number of users that have active or available connections.

**Connection Details**

System	User	Active	Available	Action
myiseries:CHLAND.IBM.COM	WARRENA	0	1	<a href="#">Clear</a>
myiseries:CHLAND.IBM.COM	CMINER	0	1	<a href="#">Clear</a>

- Connection Settings you can set for system

**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

- 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
- Memory
- List installed software products on iSeries ★
  - List Software fixes installed
- List system values ★
  - Allocation system values, date/time, security system values...

- Can quick determine:
  - Which version of Access for Web I am running
  - What is latest Fix I have put on
  - ...

**Related Links:**

- [iSeries Access for Web](#)
- [iSeries Access](#)
- [iSeries Navigator](#)
- [WebSphere Host Publisher](#)
- [iSeries Information Center](#)
- [iSeries Resource Library](#)

## Product Information

fix: SI11914  
 http.baseuri: /webaccess/  
 copyright: (C) Copyright IBM Corp. 2000,2003  
 product: 5722-XH2  
 http.port: 2016  
 http.hostname: myiseries  
 vrm: 5.3.0  
 build: 03-341



- Way at bottom of 'About' information, you will see:
  - List installed software products
  - List system values

```
file.separator: /
java.vendor.url.bug: http://www.ibm.com
java.compiler: jitc_de
sun.io.unicode.encoding: UnicodeBig
sun.cpu.endian: big
os400.file.create.auth: *NONE
java.use.policy: true
user.region: US
sun.cpu.isalist: PowerPC
```

### Memory

Total memory: 60,719,104  
 Available memory: 38,494,548

[List installed software products](#)

[List system values](#)



- You can see all software products installed on the iSeries
- Click on the 'Product' link to find:
  - More information on each product, ie, 'Properties'
  - Software Fixes applied

Product	Option	Release	Status	Description
5722SS1	0000	V5R2M0	*INSTALLED	OPERATING SYSTEM/400
5722SS1	0001	V5R2M0	*INSTALLED	OS/400 - EXTENDED BASE SUPPORT
5722SS1	0002	V5R2M0	*INSTALLED	OS/400 - ONLINE INFORMATION
5722SS1	0003	V5R2M0	*INSTALLED	OS/400 - EXTENDED BASE DIRECTORY SUPPORT
5722SS1	0004	V5R2M0	*INSTALLED	OS/400 - S/36 AND S/38 MIGRATION
5722SS1	0005	V5R2M0	*INSTALLED	OS/400 - SYSTEM/36 ENVIRONMENT
5722SS1	0006	V5R2M0	*INSTALLED	OS/400 - SYSTEM/38 ENVIRONMENT
5722SS1	0007	V5R2M0	*INSTALLED	OS/400 - EXAMPLE TOOLS LIBRARY
5722SS1	0008	V5R2M0	*INSTALLED	OS/400 - AFP COMPATIBILITY FONTS
5722SS1	0009	V5R2M0	*INSTALLED	OS/400 - *PRV CL COMPILER SUPPORT
5722SS1	0011	V5R2M0	*INSTALLED	OS/400 - S/36 MIGRATION ASSISTANT





- **Software Product Properties**

- My Folder
- My Home Page
- Print
- Messages
- Jobs
- S250
- Database
- Files
- Command
- Download
- Customize
- Other
- Bookmarks
- Change password
- Connection pool status
- Trace
- About
- Related Links:
- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- WebSphere Host
- Publisher
- iSeries Information

## Software Product Properties

Product ID:	5722IWE
Description:	WEBSPPHERE APPLICATION SERVER - EXPRESS
Release:	V5R1M0
Option:	0000
Feature ID:	5050
Feature type:	*CODE
Load error:	no
Load state:	90
Primary language:	2938
Registration type:	04
Registration value:	1-800-IBM-SERV
Symbolic load state:	*INSTALLED
Requirements met:	yes
Minimum target release:	V5R1M0
Minimum required release for base:	*MATCH

[List software fixes](#)



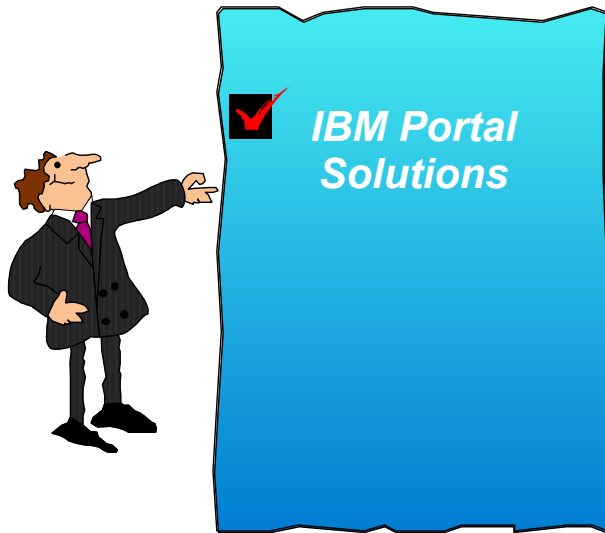
- **Software Product Fixes**
- **Can drill down and see:**
  - Cover Letter
  - General Information
  - Symptoms

- My Folder
- My Home Page
- Print
- Messages
- Jobs
- S250
- Database
- Files
- Command
- Download
- Customize
- Other
- Bookmarks
- Change password
- Connection pool status
- Trace
- About
- Related Links:
- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- WebSphere Host
- Publisher
- iSeries Information

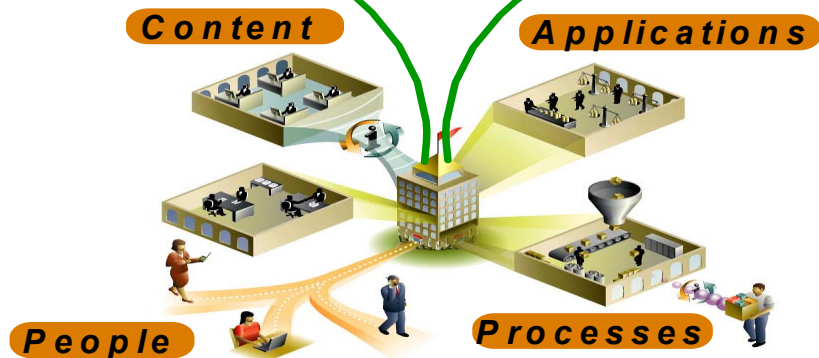
## Software Product Fixes

« » [ 1 ] »

ID	Product	Option	Release	Target Release	Action Required	Action Pending	On Order
<a href="#">SI07588</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI07589</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI07590</a>	5722IWE	0000	V5R1M0	V5R1M0	0	no	no
<a href="#">SI07608</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI07813</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI07915</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI07940</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI07956</a>	5722IWE	0000	V5R1M0	V5R1M0	0	no	no
<a href="#">SI07957</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI08040</a>	5722IWE	0000	V5R1M0		0	no	no
<a href="#">SI08093</a>	5722IWE	0000	V5R1M0	V5R1M0	0	no	no
<a href="#">SI08100</a>	5722IWE	0000	V5R1M0	V5R1M0	0	no	no
<a href="#">SI08518</a>	5722IWE	0000	V5R1M0		0	no	no



*The next wave in  
ebusiness technology*





## iSeries-specific offerings

### Flexible portal licensing (per-user OR per-cpu pricing)

- Both per-user & per-cpu pricing can be used on Intranets, Extranets & Internet
- iSeries Enterprise Edition for i825/870/890 includes 20 per-user licenses of Plus

### Simplified portal installation & set-up with wizards

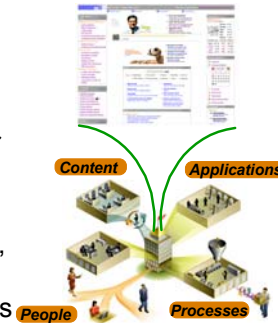
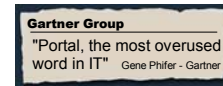
- Portal image included in Virtual Media Image (VMI) for easy installation
- Easy-to-use wizard gives you a production-ready portal server

### 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



### Available for iSeries

- WebSphere Portal - Express & Express Plus for Multiplatforms V5.02
- GA January 2004



## IBM WebSphere Portal — Express for Multiplatforms now supports IBM iSeries

IBM United States Software Announcement 203-310  
November 18, 2003

WebSphere Portal — Express provides a single unified workspace in which your employees, trading partners, and customers can easily find and use the applications and information that they need. Its features include the following:

Presentation services that let you customize a portal user interface customized to match your needs. You can also configure your portal to present content on different device types, such as laptops and mobile phones.

Connectivity services that provide you with access to company data, syndicated content, or other external sources, such as your trading partner's applications.

An end-user friendly interface that allows portal users to select which applications they view and how they wish to view them.

A portlet API that lets you easily extend portlet function to add new function, applications, and data sources to your portal.

A facility for sharing documents across your portal community.

Share documents within your portal community

- The document manager is a new set of portlets, with WebSphere Portal — Express, that provides a means for portal users to share, organize, and edit files of all types ranging from documents to spreadsheets within the portal community. Portal users can view, add, delete, and modify documents. A built-in function allows editing of a variety of file formats. You can also use the editor of your choice to modify a document. Additional features include category subscription services, a simple approval process for file contribution, automatic dialog boxes for contributing metadata, integrated search capability, versioning so that users can track the evolution of a piece of content, and access control for managing viewing privileges of different content items. WebSphere Portal — Express' portal document manager provides a cost-effective approach to maximizing the effective use of the intellectual property inherent in your documents by making them more accessible to those that need the information.

#### Key Prerequisites

IBM-compatible PC with one of the following operating systems:

- Microsoft™ Windows™ 2000 Server or Advanced Server with SP2 or SP3
- Red Hat Linux 8.0 or Red Hat Linux Advanced Server 2.1
- SuSE Linux 7.3 or SuSE Linux SLES 7 or 8

iSeries with the following operating system:

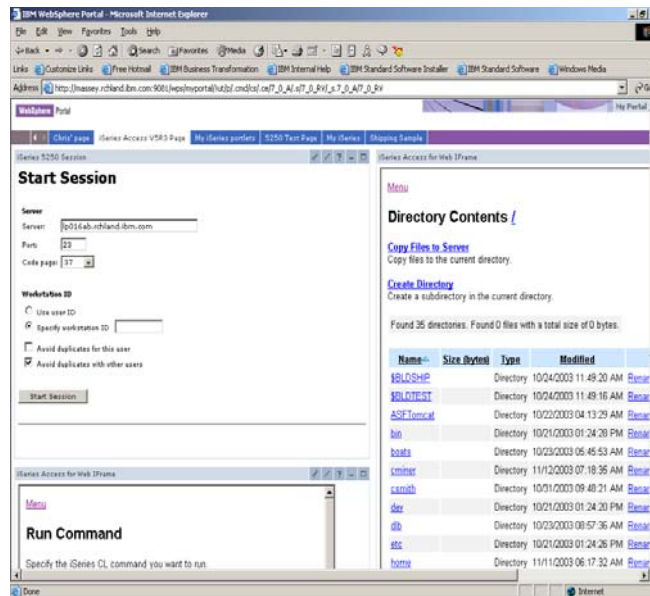
- OS/400® V5R2

#### Planned Availability Dates:

December 4, 2003: Electronic software delivery  
December 19, 2003: Media and documentation



- **Support for WebSphere Portal for iSeries**
  - **New in the V5R3 Access for Web product you can now run it as a portlet when the WebSphere Portal for iSeries product is installed on your iSeries.**
  - **5250 emulation can run 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 windows**



5250

### File portlets

File List (lists IFS directories/files, allows uploads/downloads, create directory, delete directory or file)

File List - Viewer (views files when file path is sent to it from other portlets, when File List portlet is on the same page, it can send path information of the file to display.)

File List - Editor (edit files when file path is sent to this portlet from other portlets. When File List portlet is on the same portal page, it can send path information of the file to edit.)

File Viewer (views the file that is configured in Edit mode)

### Print portlets

Printer Output List (lists spooled files for user or output queue. Allows for holding/releasing, changing, deleting, moving the spooled files)

Printers (list printers. Start/stop printers. Can send printer name to Printer Output list portlet. This would cause the printer output list portlet to display the spooled files for the specified printer)

Printer Output Viewer (views spooled file in PDF format. the spooled file information must be sent to it from another portlet. When the Printer Output List portlet is on the same page, it can send the spooled file information of the spooled file to display)

Printer Output Queues (list the output queues, allows for holding/releasing the queues. can send output queue information to Printer Output list portlet. This would cause that portlet to display the list of spooled files in the specified output queue)

### Database

Database Table (display data from a DB table. Allows for updating/deleting rows from the table, or inserting rows into the table)

SQL Query (displays the results of an SQL query statement that is set in the portlet's edit mode. Query results can be transformed into a variety of file types)

Dynamic SQL (allows SQL statements to be run. If the statement has a result set (SELECT), the data can be transformed into a variety of file types)

### Miscellaneous

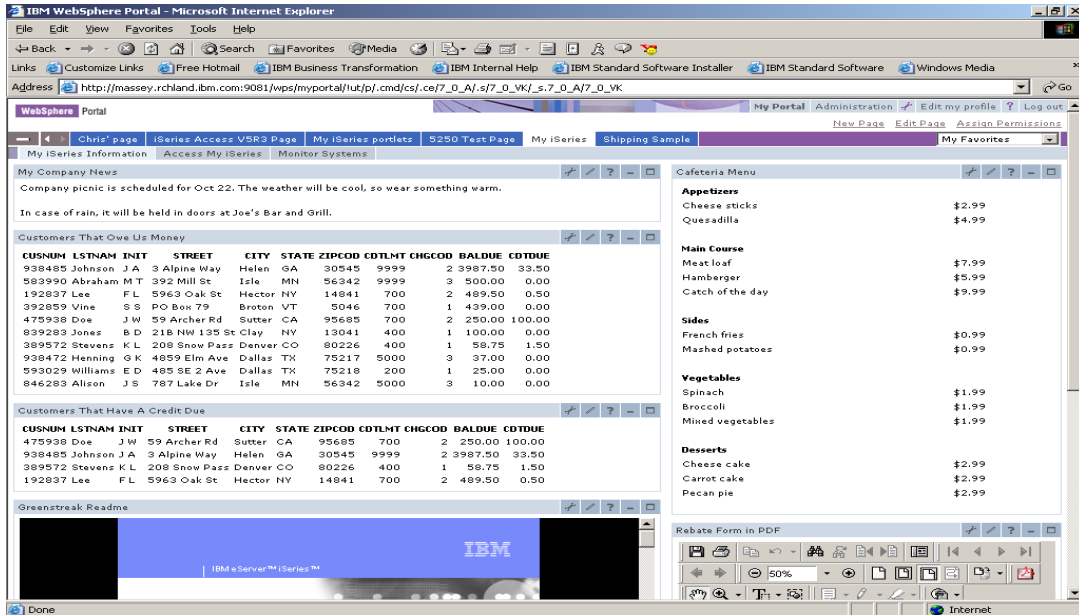
IFrame portlet - allows access to iSeries Access for Web servlet functionality using the URL to the underlying servlet function. This option has some limitations, so if we have a native portlet implementation it should be the preferred choice.

Credentials portlet - allows for creating portal credentials to be used by our portlets. this can help hide end user profiles, and allows mapping between portal user accounts and iSeries user profiles

Welcome portlet - marketing type of portlet explaining our product function

Related links - shows URL links to content related to the iSeries

Simple Content Publishing



New Redbook...  
**SG24-7005-00**

Download it from iSeries  
Access Web page at  
[www.ibm.com/eserver/iseries/access](http://www.ibm.com/eserver/iseries/access)

IBM  
Draft Document for Review June 27, 2003 2:55 pm  
5024-7005-00  
**V5R2 Hot Topics for iSeries Browser Users:  
iSeries Access for Web and  
HATS Limited Edition**



[ibm.com/redbooks](http://ibm.com/redbooks)

**Redbooks**

Jim Cook  
Estela McCarty  
Jeremy Schultz  
Roshan Tarrasa



**IBM** Who will benefit from iSeries 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 iSeries into e-business*



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OS/400  
i5/OS

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