



Using iSeries Access for Web *in a Web-Connected World!*

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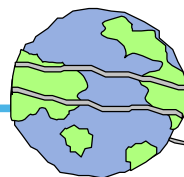
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Agenda



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iSeries Access for Web

- How to get it
- Its many capabilities

Abstract:

The iSeries Access Family has expanded its offering to include a browser-based option called 'iSeries Access for Web'. Many iSeries and AS/400 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.

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What is iSeries Access for Web?

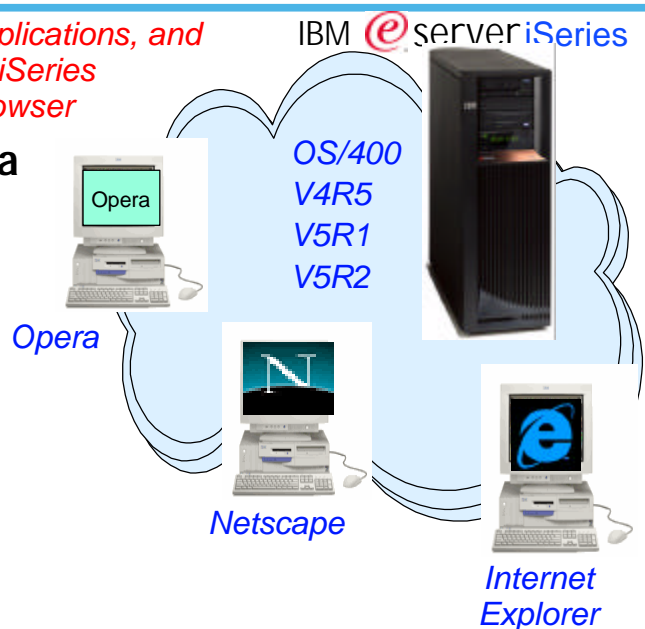
End users can leverage business information, applications, and resources across an enterprise by extending the iSeries resources to the client desktop through a web browser

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**



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Notes: What is Web Access?

iSeries Access for Web

iSeries Access for Web is a lightweight, browser-based access to your iSeries servers

Pure Java Servlet-based access

- iSeries Access for Web is a set of servlets that run on the iSeries servers as extensions to the HTTP server. It provides access to functions such as database, file, print, and messages on the iSeries server.

Industry-standard protocol

- iSeries Access for Web uses the industry standard HTTP and HTTPS protocols, and does not use any proprietary TCP/IP ports and protocols. Firewall issues are much more manageable as a result.

Lightweight Access

- The intent of iSeries Access for Web is lightweight and casual access of iSeries servers from a web browser. Most of the iSeries Access for Web functions have minimal browser requirements and would work with almost any browser on any platform.

Server-based

- iSeries Access for Web is entirely server based. There is no client code to install and manage. Simply install and configure on the server, access from any web browser.

Object-level security

- Access to the iSeries data is based on iSeries object level security. Users and groups have only access to the data they are authorized to.

Fully customizable

- Access to iSeries Access for Web functionality can be restricted for users and groups of users. iSeries Access for Web is fully customizable.

HTML and other internet mime types

Responses from the iSeries Access for Web servlets are formatted and tagged with the appropriate mime types. Some of the mime types used are (others may be used and added in the future):

- HTML (text/html)
- binary (application/octet-stream)
- text (text/plain)
- MS Excel (application/vnd.ms-excel)
- Lotus 1-2-3 (application/vnd.lotus-1-2-3)
- GIF images (image/gif)
- TIFF images (image/tiff)
- HP PCL (application/vnd.hp-PCL)
- AFP (application/vnd.ibm.modcap)

In most cases, the request implies the resulting data type. iSeries Access for Web servlets retrieve the data, format the data in appropriate formats, tags it with the appropriate mime type, and sends the response back to the client

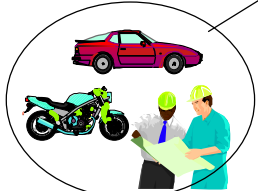
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Who will use this product?

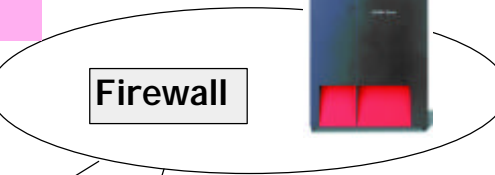
iSeries users who:

- Want no special software installed on their desktops
- Want access from a variety of desktop operating systems
- Want a simple Internet access to their iSeries
- Want no special firewall settings for user access
- Want to use familiar browser functions like Cut & Paste, Print, ...

Sales people can deploy parts orders & warranty filing system to distributors across an extranet



Dealers can order parts or check inventory online

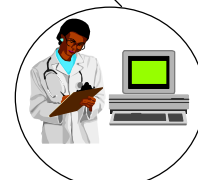


Firewall

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Agents & brokers can check policies, claim status, and accounts receivable on the Internet



Doctors & clinicians can enter lab orders and review test results anytime from anywhere

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Notes: iSeries Access for Web

The Internet movement has taken over and businesses are quickly moving to embrace these technologies through e-business! Since almost all desktop operating systems come with web browsers, users want an easy way to work with their business critical OS/400 information and resources through this simple user interface that has been designed to be Internet friendly. Users also are looking for hassle-free access through firewalls. They want access from a variety of platforms, and want no special client code that has to be installed and maintained on their desktop.

iSeries customers are looking for ways to streamline management of user access to information in the enterprise through centrally controlled mechanisms built around OS/400 user profiles. Additionally, they want to customize a user's view of the iSeries or AS/400 servers, so those not familiar with OS/400 operating environment can easily and productively work with its database and other resources.

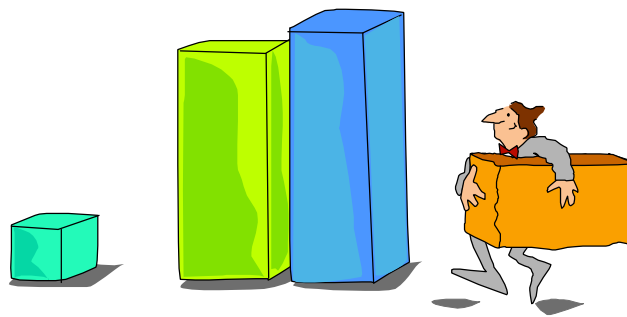
A new means of accessing the iSeries, called iSeries Access for Web, provides software that runs on the server and provides access through a browser and provides an application user-centric, web-based portal view of iSeries or AS/400 application and information.

The iSeries Client Access Family is product ID 5722-XW1. The iSeries Access for Web offering has a product ID of 5722-XH1 and is part of the Family offering. This was a late-add for V5R1 and was made generally available September 28, 2001. It is provided on a separate iSeries CD (ie, it is not on the locked media).

iSeries Access for Web is designed as a set of web components for web applications. Thus, a web application can simply invoke or link to its URLs and take advantage of the functions it provides. Additionally iSeries Access for Web is a set of servlets that run on the server as an extension to the HTTP server; this makes it a Pure Java servlet and is Server-based. There is no client code to install or manage. Install and configure the code on the server and access server resources from any supported web browser. Industry standard protocols, HTTP and HTTPS, are used by iSeries Access for Web. Since it needs no proprietary TCP/IP ports or protocols, considerations surrounding firewall usage are easily manageable.

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Packaging & Ordering



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iSeries Access Family Packaging

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V4R5 5722-XW1 AS/400 Client Access Family for Windows	V5R1 5722-XW1 iSeries Client Access Family	V5R2 5722-XW1 iSeries Access Family
<ul style="list-style-type: none"> 5769-XE1, V4R5 AS/400 Client Access Express for Windows 	<ul style="list-style-type: none"> 5722-XE1, V5R1 AS/400 Client Access Express for Windows 	<ul style="list-style-type: none"> 5722-XE1, V5R2 iSeries Access for Windows
<ul style="list-style-type: none"> 5763-XD1, V3R2M0 AS/400 Client Access for Windows 95/NT 	<ul style="list-style-type: none"> 5722-XH1, V5R1 iSeries Access for Web 	<ul style="list-style-type: none"> 5722-XH2, V5R2 iSeries Access for Web
<ul style="list-style-type: none"> 5763-XK1, V3R1M0 AS/400 Client Access for Windows 3.1 	<ul style="list-style-type: none"> 5648-E25, V3.5 WebSphere Host Publisher 	<ul style="list-style-type: none"> 5724-B81, V4.0 WebSphere Host Publisher
<p>Customers with Software Subscription can get V5R1 clients by ordering no-charge Feature No. 2643 of Product No. 5755-AS5</p>	<p>Customers with Software Subscription can get V5R2 clients by ordering no-charge Feature No. 2645 of Product No. 5722-XW1</p>	

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Notes: Ordering Information

What is included with iSeries Client Access Family (5722-XW1) - V5R1

AS/400 Client Access Express for Windows (V5R1) - 5722-XE1
iSeries Access for Web (V5R1) - 5722-XH1
WebSphere Host Publisher V3.5 - 5648-E25

Note: From May 25, 2001 to September 28, 2001, the iSeries Client Access Family (5722-XW1) included only the AS/400 Client Access Express for Windows (V5R1) client. Customers ordering the Client Access Family during that timeframe can order 'no charge' Feature No. 2644 of Product No. 5722-XW1 (software subscription not required) to receive the iSeries Access for Web (V5R1) and WebSphere Host Publisher code.

Orders for iSeries Client Access Family (5722-XW1) placed after September 28, 2001, included all three software products.

What is included with AS/400 Client Access Family for Windows (5769-XW1) - V4R5

AS/400 Client Access Express for Windows (V4R5) - 5769-XE1
AS/400 Client Access for Windows 95/NT (V3R2) - 5763-XD1
AS/400 Client Access Enhanced for Windows 3.1 (V3R1) - 5769-XK1

Customers who have OS/400 V4R5 and the V4R5 Client Access Family (5769-XW1) and software subscription and want the products included in the V5R1 Client Access Family product can order 'no charge' Feature No. 2643 of Product No 5755-AS5. The following will be shipped to you.

AS/400 Client Access Express for Windows (V5R1) - 5722-XE1
iSeries Access for Web (V5R1) - 5722-XH1
WebSphere Host Publisher (V3.5) - 5648-E25
iSeries Client Encryption (56-bit) - 5722-CE2
iSeries Client Encryption (128-bit) - 5722-CE3

Client Access provides directions on what needs to be installed from the V5R1 deliverable back onto your V4R5 system to enable you to use the new Client Access functions.

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iSeries Access for Web Offerings

iSeries Access for Web V5R1, 5722-XH1

- Available 9/28/2001, English-only
- Runs on WebSphere Application Server 3.5
- Runs on OS/400 V4R5 and V5R1
- Can run one instance of iSeries Access for Web on WAS 3.5

iSeries Access for Web V5R2, 5722-XH2

- Fully translated, including DBCS NLVs
- Runs on WebSphere Application (Advanced and Single) Server 4.0 and IBM HTTP Server with the "Tomcat" plug-in from the Apache Software Foundation (ASF)
- Runs on OS/400 V5R1 and V5R2
- Can be configured to run with more than one web application server and can run concurrently.
 - WAS Advanced 4.0, WAS Single Server 4.0, and ASF Tomcat can all be installed, configured, and running on an iSeries server concurrently, and V5R2 (5722-XH2) can be configured to run in more than one WebSphere administrative instance concurrently.
 - iSeries Access for Web V5R1 (5722-XH1) and V5R2 (5722-XH2) can be installed and run on the same iSeries server concurrently

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Notes: Language Enablement

iSeries Access for Web - 5722-XH1, V5R1

iSeries Client Access Family (5722-XW1) ships with the locked media. However, iSeries Access for Web (5722-XH1) nor WebSphere Host Publisher are not on the V5R1 locked media but ship on separate CDs.

iSeries Access for Web is English only. English only is defined to mean:

- The product is not translated to other languages.
- The product is NLV enabled.
- The install media contains all language options but each option is populated with English MRI, and the IBM Distribution Center language "bins" contain the English MRI. When an order is placed for a specific language, the media package will have English MRI.
- When you specify the language you want installed, the proper language-specific directories will be created, but the MRI modules will be English modules.

iSeries Access for Web - 5722-XH2, V5R2

iSeries Client Access Family (5722-XW1) ships with the locked media. iSeries Access for Web (5722-XH2) ships on the V5R2 locked media. WebSphere Host Publisher is on separate CDs.

iSeries Access for Web, 5722-XH2, V5R2 is available in the following NLVs:

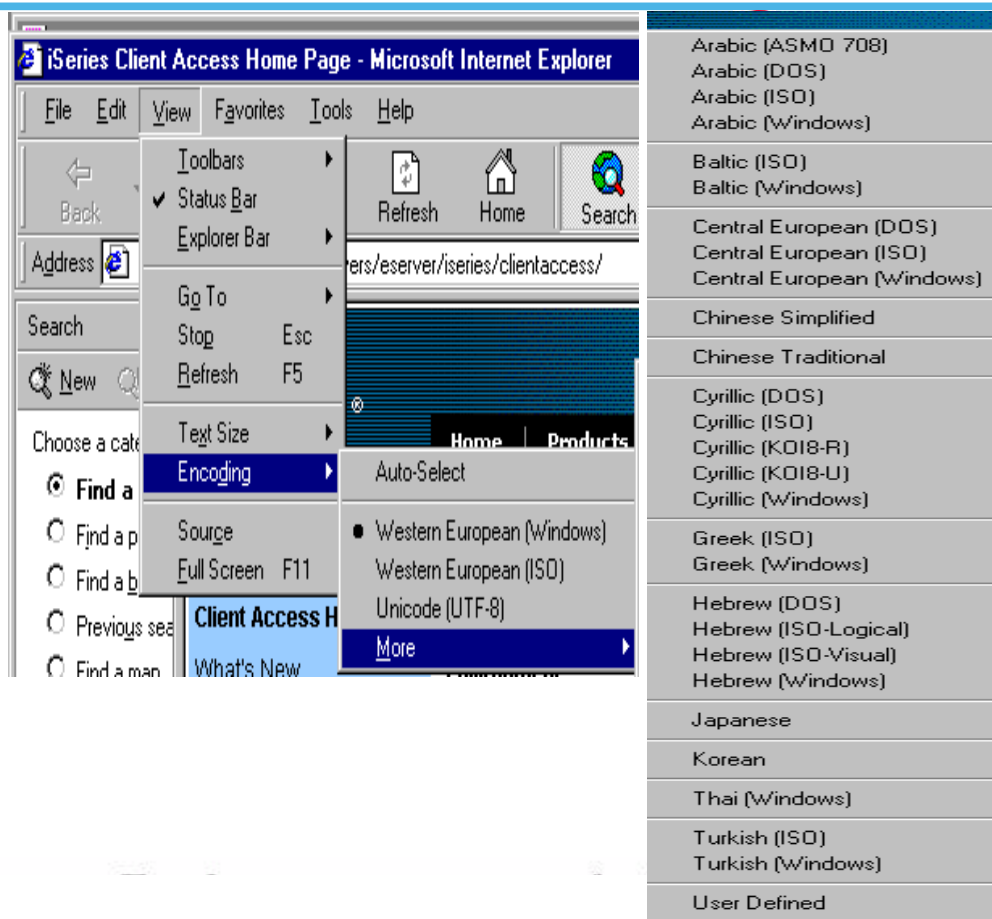
- French
- Italian MNCS
- Swedish
- Hebrew
- German MNCS
- Finnish
- Japan
- Traditional Chinese
- Romanian
- Brazil Portuguese
- Czech
- German
- Russian
- Polish
- Spanish
- Turkish
- French MNCS
- Slovenian
- Danish
- Norway
- Portuguese
- Simplified Chinese
- Arabic
- Belgium Dutch
- Slovakian
- Dutch
- Croatian
- French Belgium
- Italian
- Greek
- Korean
- French Canadian
- Hungarian

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Use your favorite browser code page

iSeries Access for Web can be used with any code page available in browser

- iSeries Access for Web, V5R2, translated into 33 NLVs (including DBCS)
- iSeries Access for Web, V5R1, is NLV-enabled, but English only



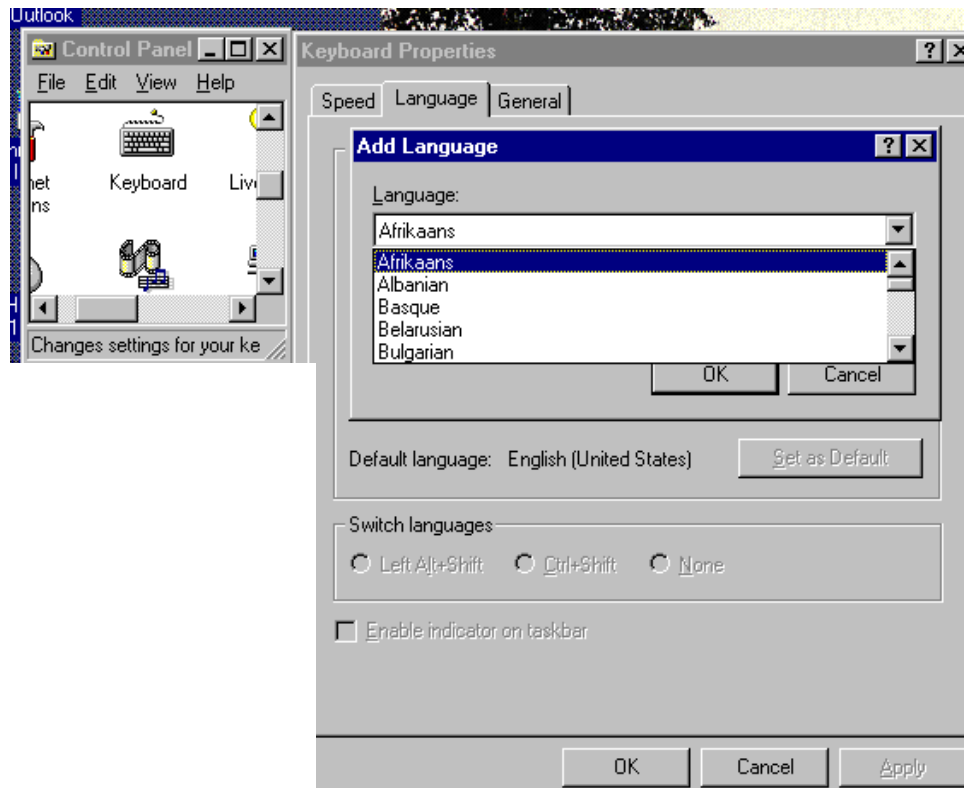
Use your favorite keyboard language

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iSeries Access for Web can be used with any keyboard setting available in Windows

Users will see all iSeries screens in primary OS/400 language

- Note: with iSeries Access for Web, V5R1, its screens and messages will be in English



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Concurrent Usage

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Must have Client Access Licensed Program Product (5769-XW1 or 5722-XW1) installed on Server

- All products do license checking
 - Express for Windows acquires a license when either PC5250 or Data Transfer is used
 - Web Access acquires a license when any function is used
 - Host Publisher is checked at runtime
- Each product acquires a license when connecting to an iSeries
 - If you use the products simultaneously you would be using more than 1 license while connected

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Server / Desktop Requirements

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Server / Desktop Requirements	iSeries Access for Web V5R1 5722-XH1	iSeries Access for Web V5R2 5722-XH2
OS/400	• V4R5, V5R1	• V5R1, V5R2
iSeries HW	• Batch	• Batch • 5250 - Interactive
Web Application Server	• WAS 3.5 Standard, 5733-AS3 • WAS 3.5 Advanced, 5733-WA3	• WAS 4.0 Single, 5733-WS4 • WAS 4.0 Multi, 5733-WA4 • ASF Tomcat
Ports	• 80 (HTTP), 443 (HTTPS)	• 80 (HTTP), 443 (HTTPS)
Connectivity	• TCP/IP	• TCP/IP
Encryption	• SSL in browser	• SSL in browser
Browser	• Netscape, Internet Explorer, Opera	• Netscape, Internet Explorer, Opera
Desktops supported	• Any O/S with supported browser -- Windows 95, 98, Me, NT, 2000, XP, Linux, AIX, UNIX, Solaris, Macintosh, OS/2	• Any O/S with supported browser -- Windows 95, 98, Me, NT, 2000, XP, Linux, AIX, UNIX, Solaris, Macintosh, OS/2

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Software Requirements

Product Number	Product Name	Option	\$
57xx-SS1	OS/400 V5R2, V5R1 or V4R5	Base	w/HW
57xx-SS1	Operating System/400 Host Servers	12	N/C
57xx-SS1	Operating System/400 Qshell Interpreter	30	N/C
57xx-SS1 57xx-AC2 or 57xx-AC3	If you plan to use Secure Sockets Layer (SSL): – OS/400 Digital Certificate Manager – Cryptographic Access Provider (56-bit) or – Cryptographic Access Provider (128-bit)	34	N/C N/C N/C
57xx-DG1	IBM HTTP Server for iSeries		N/C
57xx-JV1	Developer Kit for Java Developer Kit for Java Version 1.2	Base 3	N/C N/C
57xx-JC1	Toolbox for Java		N/C
57xx-TC1	TCP/IP Connectivity Utilities for iSeries		N/C
5733-AS3 5733-WA3 5733-WS4 5733-WA4	Any of the following: • WebSphere Application Server Standard Edition V3.5 • WebSphere Application Server Advanced Edition V3.5 • WebSphere Application Server Single Server V4.0 • WebSphere Application Server Advanced Server V4.0 • IBM HTTP Server and the Tomcat 'plugin' from Apache Software Foundation		N/C \$ \$ \$ N/C

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Notes: Hardware & Performance Guidelines

iSeries Access for Web

- Sends HTML pages no larger than to any pages you might be receiving through your browser today (nK)
- Administrator can configure the maximum size of a list (could set it to 500 bytes per page)

ASF Tomcat

Requires an iSeries with 70 cpw & 256 MB memory.

Please note the following HARDWARE Prerequisites for WAS:

Systems hosting applications using enterprise beans

Any of the following servers (recommended minimums):

- Model AS/400e Server 170 with processor feature 2385
- Model AS/400e Server 720 with processor feature 2062
- Model AS/400e Server 270 with processor feature 2252
- Model AS/400e Server 820 with processor feature 2396
- 1 gigabyte of memory (recommended minimum)

Systems hosting applications using servlets and JavaServer Pages only:

Any of the following servers (recommended minimums):

- Model AS/400e Server 170 with processor feature 2292
- Model AS/400e Server 720 with processor feature 2061
- Model AS/400e Server 270 with processor feature 2248
- Model AS/400e Server 820 with processor feature 2395
- 512 megabytes of memory (recommended minimum)

Note: Systems below these recommended minimums may be used in environments that support a limited number of users and where longer server initialization times can be tolerated.

Run the workload estimator at:

- <http://www-912.ibm.com/supporthome.nsf/document/23393024>
- The workload estimator. See <http://as400service.ibm.com/servlet/EstimatorServlet>. The workload estimator provides recommended minimums for memory requirements for WebSphere--and they are greater than traditional workloads. Additional information is planned to better explain that the increased memory requirements of emerging workloads is likely to conflict with some memory and performance adjust scenarios that previously worked acceptably for more traditional workloads that require less memory.

We are attempting to provide guidelines for WebSphere Application Server and other emerging workloads on the web through various documents such as:

- The performance capabilities guidelines documents. See <http://publib.boulder.ibm.com/pubs/html/as400/online/chgfrm.htm>
- The WebSphere performance whitepaper. See <http://www-1.ibm.com/servers/eserver/series/software/websphere/wsappserver/product/PerformanceConsiderations.html>. Some of the discussion (for example, the discussion of maximum activity level) may be a bit generic and we are planning to provide some examples for specific WebSphere configurations.
- The minimum recommended system requirements for WebSphere. See <http://www-1.ibm.com/servers/eserver/series/software/websphere/wsappserver/docs/as400v35/docs/instprreq.html>
- The performance tools are updated with each release. Operations Navigator and PM/400 provide many state-of-the-art performance analysis function to iSeries customers.

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First Install Customer Assistance

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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.iseries.ibm.com/developer/websphere/assistance.html>

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Notes: First Install Customer Assistance

You need to insure your iSeries is properly configured. For example, if you were to run WAServer in a storage pool with far less storage allocated than what is the "recommended minimum" or what the workload estimator would have asserted, you could experience excessive paging and see high page faulting rates. Java-based applications do drive more memory per user.

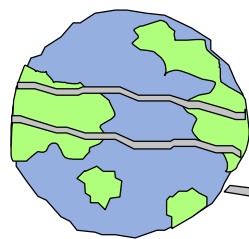
If you are interested in applying for participating in our First Install Customer Assistance for Websphere Application Server please provide the following information:

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. 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>

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Let's Connect!



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Start Your Browser

Welcome to AOL.COM - Netscape
 File Edit View Go Communicator Help
 Back Forward Reload Home Search Netscape Print Security Shop Stop
 Bookmarks Location: http://www.iseries.com/webaccess/iWA

Username and Password Required
 Enter username for rchasf6d.rchland.ibm.com at smslhx3:
 User Name: cminer
 Password: *****
 OK Cancel

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

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Front Page = www.<iseries>.com/webaccess/iWA

@Homepage [RCHAS1DD.RCHLAND.IBM.COM] - Netscape
 File Edit View Go Communicator Help
 Back Forward Reload Home Search Netscape Print Security Shop Stop
 Bookmarks Location: http://rchas1dd/webaccess/iWAHome

iSeries Access for Web
 cminer RCHAS1DD.RCHLAND.IBM.COM

My Information
[iSeries Access for Web](#)
[Main Page](#)
[Printer Output](#)
[Messages](#)
[Send Message](#)
[Start 5250 Session](#)
[Database Requests](#)
[Preferences](#)

My Applications
 You can have links to your web applications and iSeries Access for Web on your own home page! For more information about customization, see [Customizing iSeries Access for Web](#) below.

Related Products
[WebSphere Application Server for iSeries](#)
[WebSphere](#)
[Development Tools for iSeries](#)
[WebSphere](#)
[Development Studio for iSeries](#)

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iSeries Access for Web

Welcome to iSeries Access for Web!

The iSeries Client Access team has a history of providing easy-to-use and highly functional PC-to-iSeries server connectivity solutions -- and now we are excited to provide a new generation of software that enables you to access your iSeries server information and resources through a web browser! For more information about iSeries Access for Web, see [What is iSeries Access for Web](#) below.

This web page is an example of integrating parts of iSeries Access for Web into your own homepage. In this example, the left navigation bar has Access for Web links. The right navigation bar, of course, has links to information about Rochester, MN, where

Rochester Information
[City information](#)
[Movies](#)
[Mayo Clinic](#)

Rochester Weather
Rochester, MN
 12:00 PM CDT
 Partly Sunny
 73°F
 E 12 MPH
[theweathercenter.com](#)
[SkyCam](#)

Rochester News
[PostBulletin](#)
[KITC](#)

Telephone Directory
[Find a person](#)
[Find a business](#)

http://www.ibm.com/software/webservers/hostpublisher/

Main Page = www.<iseries>.com/webaccess/iWAMain

iSeries Access for Web

Welcome to iSeries Access for Web, the lightweight, browser-based access to your iSeries server.

Pure Java servlet based access

iSeries Access for Web is a set of servlets that run on iSeries servers as extensions to the HTTP server. The servlets provide access to databases, files, print queues, printer output, and messages contained on the iSeries server.

Industry standard protocol

iSeries Access for Web uses the industry standard HTTP and HTTPS protocols instead of proprietary TCP/IP ports and protocols. Firewall issues are much more manageable as a result.

Lightweight access

iSeries Access for Web provides lightweight, and convenient access to iSeries servers from any web browser. Most of the iSeries Access for Web functions have minimal browser requirements and work with almost any browser on any platform.

Server based

iSeries Access for Web is entirely server based. There is no client code to install and manage. Simply

Functions You Can Perform

My Personal Folder

Print

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

Database

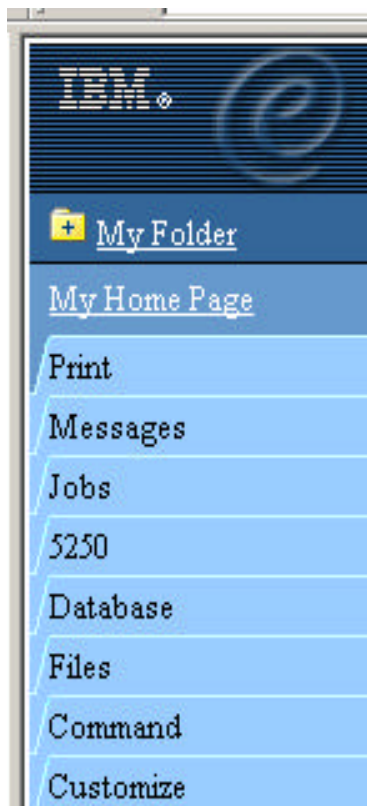
- Tables
- My Requests
- Run SQL
- Copy Data to Table
- Import Requests

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

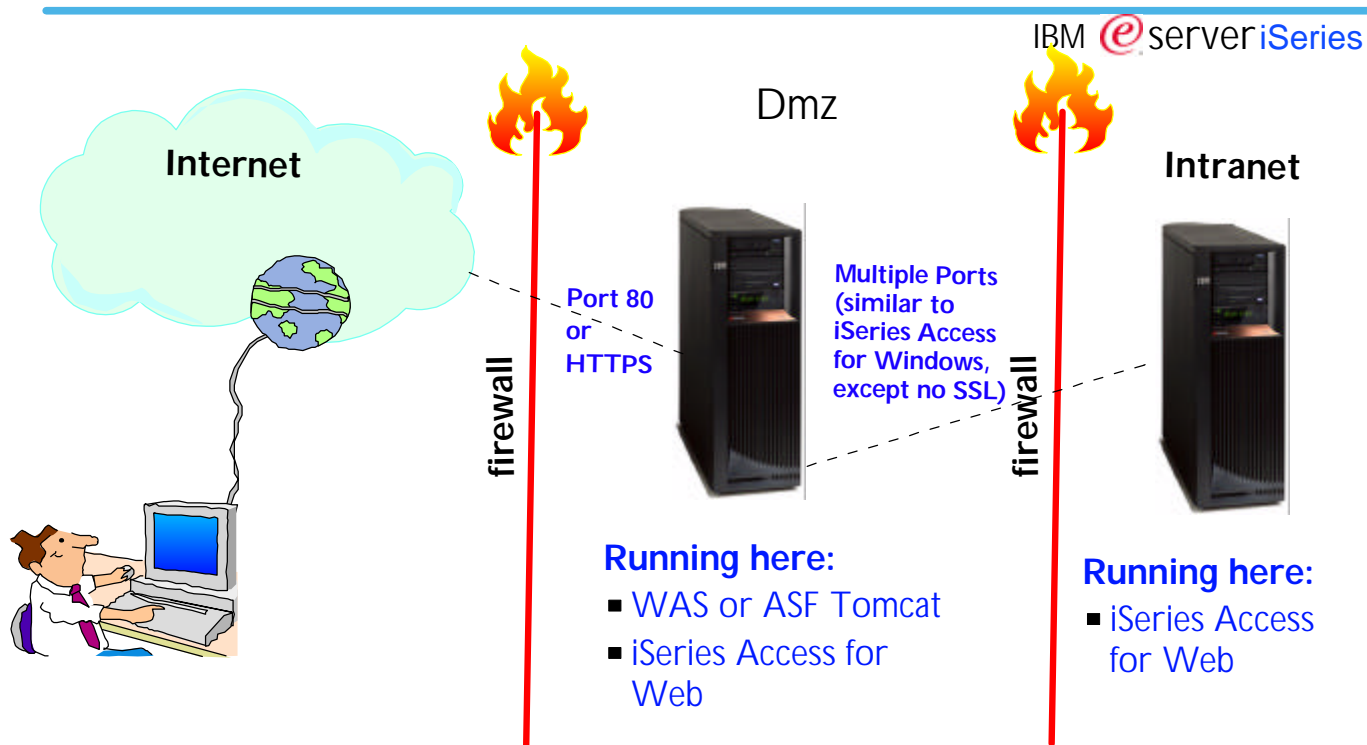
- User Jobs
- Server Jobs

Customize

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

 (Star) = requires V5R2, 5722-XH2, iSeries Access for Web

Using a Dmz*



*Dmz = Demilitarized Zone

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Port Requirement Comparison

iSeries Access for Windows (5722-XE1)*

- Port 449 for Port Mapper
- Port 8476 (9476) for Sign-on
- Port 8470 (9470) for Central
- Port 8472 (9472) for Data Queues
- Port 8471 (9471) for Database
- Port 8475 (9475) for Remote Commands
- Port 8473 (9493) for Print
- Port 2001 (2010) for Web Admin
- Port 446 (448) for DDM
- Port 23 (992) for Telnet
- Port 137, 138 for NetServer
- Port 8480 for USF
- Port 389 (636) for LDAP
- Port 5555 (5566) for Mgmt Central
- Port 53 if using DNS Server

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iSeries Access for Web

- Port 80 for HTTP
- Port 443 for HTTPS

* See Information APAR II12227 for detailed information

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- Printing
- Database
- Files
- Messages
- Commands
- 5250
- Jobs
- **Customize**



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Full Control through Customization

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Customize by 'group' and 'user'

IBM iSeries Access for Web

webaccess

Customize Group Profiles

To add or change settings for a profile, select Edit.

◀◀ [1] ▶▶

Profile	Description	Action
*PUBLIC	Default settings for all users	Edit
COOLGROUP	Janet W	Edit
GROUPA	RENATA E. G	Edit
GROUPB	Juan Pablo H	Edit
GRUPOC	Daniel E.	Edit Copy Reset
JAVAVULP00	JAVAVULP00-Dept	Edit
SALESMEN	Test group for Carole Miner	Edit Copy Reset
TESTGROUP1		Edit
TESTG1	GDL TEST 5257	Edit
TESTG2		Edit

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Go through each tab and customize

IBM iSeries Access for Web

webaccess

Customize Group Profile

Profile: SALESMEN

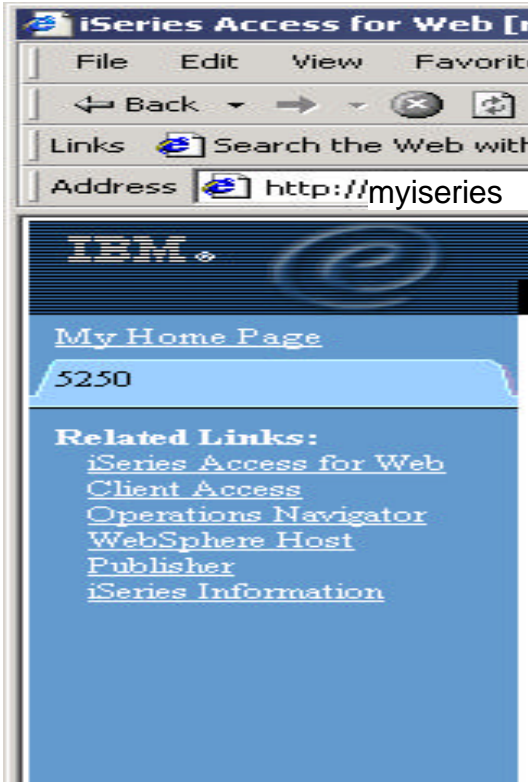
To customize this profile, select a category.

Category	Description
General	Page layout, language and character set custom settings.
Print	Printer output, printers, printer shares and output queue custom settings.
Messages	Display messages, send message, and message queue custom settings.
Jobs	Work with jobs custom settings.
5250	5250 session custom settings.
Database	Database tables, requests, and run SQL custom settings.
Database connections	Create and edit database connection definitions.
Files	Integrated file system and file share custom settings.
Command	Run batch command custom settings.
Mail	Send mail custom settings.
My folder	My folder custom settings.
Administration	Administration and preferences control custom settings.
Other	Change password and other miscellaneous custom settings.

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Group 'Salesmen' View after Customization

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- Only 5250 tab left after customization of 'Salesmen' group
- You could remove other items by using HTML editor product (like Front Page, Composer, etc)

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Customizing Database Access

My Folder

My Home Page

Print

Messages

Jobs

Database

Files

Command

Customize

Preferences

User profiles

Group profiles

Selected profile

Other

Related Links:

[iSeries Access for Web Client Access](#)

[Operations Navigator](#)

[iSeries Information](#)

Customize - Database

Profile: GROUPA

Policy	Derived From	Action	
Database tab	Shipped default	Use current setting	Show
Tables	Shipped default	Use current setting	Allow
Maximum table rows	Shipped default	Use current setting	500
Table filter	Shipped default	Use current setting	*USRLIBL
Table filter is user preference	Shipped default	Use current setting	Allow
Insert records into table	Shipped default	Use current setting	Allow
Update records in table	Shipped default	Use current setting	Allow
Quick view table records	Shipped default	Use current setting	Allow
Maximum quick view rows	Shipped default	Use current setting	1000
Requests	Shipped default	Use current setting	Allow
Run request	Shipped default	Use current setting	Allow
Copy request	Shipped default	Use current setting	Allow
Delete request	Shipped default	Use current setting	Allow

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Select to allow/disallow 'Database' Tab

Tables

- Maximum table rows
 - (50 100 250 500 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 No maximum)
- Show tables filter as a preference
- Insert records into table
- Update records in table
- Quick view table records -
 - Maximum quick view rows (50 100 250 500 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 No maximum)

Requests

- Run, Copy, Delete, Rename, Edit or Save requests

Shortcuts

- List, Create, Copy, Delete, Rename shortcuts
- Request list columns

Run SQL requests

- Run statements other than query

Copy data to table

- Create new tables
- Append data to tables
- Replace data in tables

Import request

Default connection

Show default connection as a preference

Add IBM Toolbox for Java to connection list

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Notes: Customize iSeries Access for Web

Customize iSeries Access for Web

The iSeries Access for Web pages you are looking at in this presentation are examples of the pages that you can customize. You can integrate your own web applications into the iSeries Access for Web applications. For example, you could use Host Publisher to build web interfaces to your own existing 5250 applications. For more information about Host Publisher, WebFacing (part of the WebSphere Development Studio for iSeries), and other web development products, see [Related Products](#).

Customize - Set preferences to control how information is presented when using iSeries Access for Web. Administrators are able to customize settings and control which functions are available for other users or groups. Since an iSeries user profile is required to access iSeries Access for Web, customized settings are associated with user profiles. Customized settings can also be associated with iSeries group profiles, so members of groups without settings specific to their user profile will inherit settings from their group profiles. This allows administrators to easily customize the settings for whole groups of users without having to customize all users individually.

Preferences - The Preferences function on the **Customize** tab allows users to control how information is presented to them. By default, users are able to set their own preferences. Any preference modifications will be saved and associated with their iSeries user profile. These preferences will be used every time the user logs on.

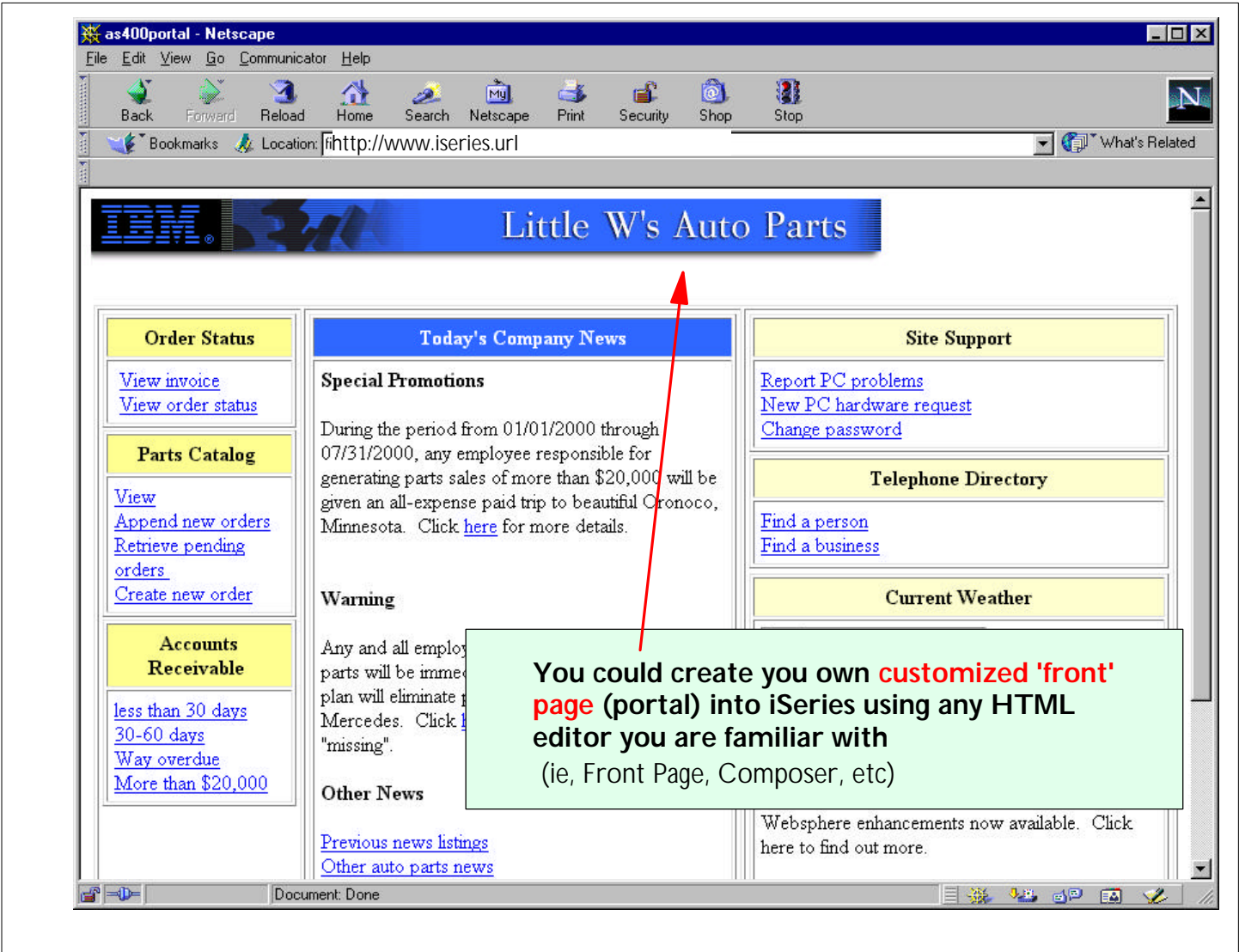
User Profiles - the User Profiles function on the **Customize** tab is available only to iSeries Access for Web administrators. This function displays a list of user profile names retrieved from the iSeries server. The list of profiles includes the ones the administrator is allowed to update. From this list, the administrator can select a user profile to customize.

Group Profiles - the Group Profiles function on the **Customize** tab is available only to iSeries Access for Web administrators. This function displays a list of group profile names retrieve from the iSeries server. The list of profiles includes the one the administrator is allowed to update. From this list, the administrator can select a group profile to customize. A special group profile, *PUBLIC, can be used to customize default settings for all users.

Selected Profile - the Selected Profile function on the **Customize** tab is available only to iSeries Access for Web administrators. This function allows administrators to customize profiles by entering a specific user or group name.

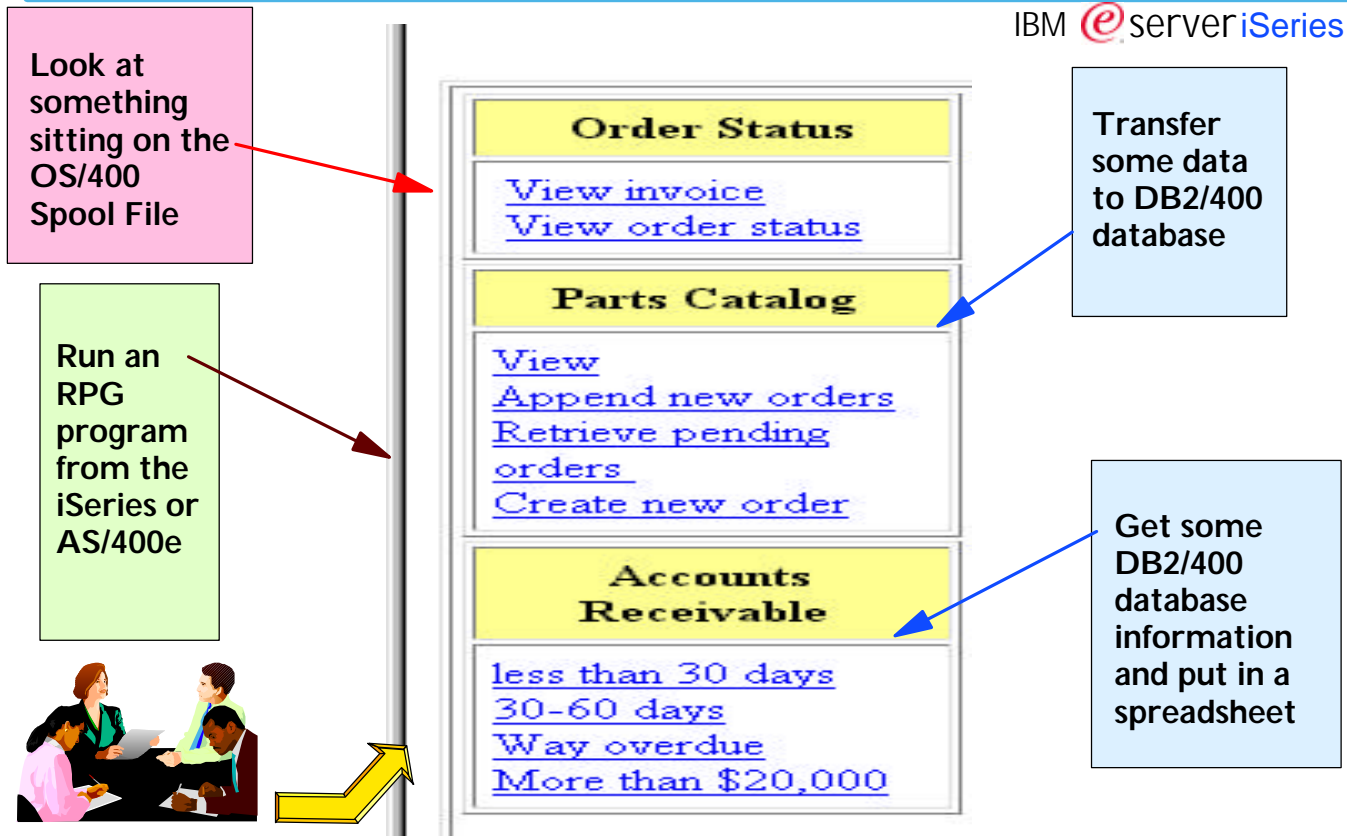
See [Administering Users and Groups](#) in the iSeries Access for Web Setup Guide for more information on how to administer iSeries Access for Web policy settings.

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Example of things an end user might do

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Customizing User Access to iSeries

Administrator Capabilities = Policies

- **Home Page Customization**
 - Can change whole look and feel of iSeries Access for Web, and have many different views based on users/groups
- **User or Group Customization**
 - Customize what functions a specific user can perform and what a specific function will look like when accessed.
- **Customization Editor**
 - Use to adjust how information is presented to users, to allow/deny users to set individual preferences...

End User Capabilities = Preferences

- **Users can adjust how information is presented to them. For example:**
 - A user can adjust the columns to display when viewing a list
 - A user can indicate the number of items to display per page in the list

All based on 'User Profiles'

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Notes: iSeries Administrator Customization

User based customization

iSeries Access for Web allows for customizing what functions a specific user can perform and what a specific function will look like when accessed. These customizations will control items both from a user-interface level as well as from a servlet functional level. This means if a function is restricted, the "menu" or navigation content will be restricted, as well as the servlet will be restricted if a user tries to access a servlet directly via its URL. Customizations are tailorable based on the iSeries user profile of the user accessing our servlets. Since iSeries also supports a primary group, secondary groups, and *PUBLIC, the iSeries Access for Web customization function also allows customizers to control items at these levels. It should be noted that if an administrator turns off access to Printers at the *PUBLIC level, but has it turned on at the PRINTADM user profile level and if PRINTADM attempts to use iSeries Access for Web, they will have access to the Printers function.

Home page customization

iSeries Access for Web ships a default home page that users will see when they access the product. This default home page will contain links to iSeries Access for Web functions, as well as links to other IBM sites such as the iSeries home page, and iSeries publications. If customizers choose to, they can make additions/deletions/changes to our default home page HTML file. They can also provide their own home page HTML file. Similar to User based customization of function, Home page customization also allows for different users and groups to have different home page content. This is done by specifying different home page HTML files for the individual users or groups.

Customization editor

iSeries Access for Web has a customize function that allows administrators and regular users to tailor the functions available from and information presented by iSeries Access for Web. Administrators (those with IOSYSCFG authority) have access to all customization functions.

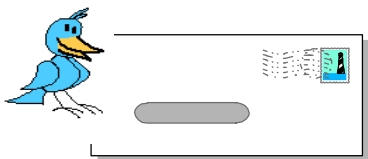
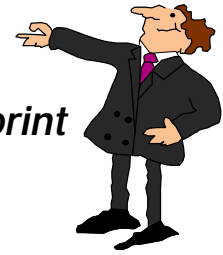
- change the settings for any user profile or group profile
- enable or disable functions or sub-functions
- change the defaults for how information is presented
 - change the order of columns, hide unwanted function menus, hide unwanted columns of information, change the default system settings, customize the iSeries Access for Web home page, customize the headers and footers of the HTML template
- Regular users will be allowed to change certain personal settings:
 - change the order that accessible information is presented (ie, change the order of columns), hide extraneous information (ie, hide unwanted functions, hide unwanted columns of information)
- Regular users will not be allowed to:
 - change the settings for other users or groups, enable functions or sub-functions that were disabled by an administrator

The customization settings are stored in a fashion that takes into account the hierarchical nature of user and group profiles. Settings may be stored for individual users or groups. Additionally, there will be administrator supplied system settings and so-called factory settings which are the IBM-supplied defaults. Settings not specified for an individual user will be derived from the group settings or next higher node in the hierarchy. The order for deriving settings is as follows:

- (1) User profile, (2) Group profile(s), (3) Administrator-supplied system defaults (UserData), (4) IBM-supplied defaults (ProdData)

'Mail' option for output

Database, CL or file command or PDF of print information



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e-Mail - V5R2

IBM @serveriSeries

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.

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Set up my session for e-mail capability

Customize - Mail

Profile: CMINER

Policy	Derived From	Action	Setting
Send mail	Shipped default	Use current setting	Allow
SMTP mail server	Profile setting	Use current setting	us.ibm.com
E-mail address	Profile setting	Use current setting	cmminer@us.ibm.com
E-mail address is user preference	Shipped default	Use current setting	Allow

OK Cancel

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Select Mail Option for Printer Output (PDF)

PDF Output Settings

PDF device type: *IP40300

Drawer 1 paper size: *LETTER

Drawer 2 paper size: *LETTER

Destination: Browser

Restore original p

Run

Device Type Details

*IP40240

Specifies the type of printer device that the IPDS to PDF transform will emulate.

*IP40240

The transform will emulate an Infoprint 40 printer device at 240 dots per inch resolution. The transform works like a TCP/IP connected 240 pel IPDS Infoprint 40 with the 4820

Mail output

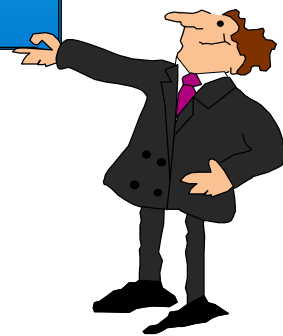
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Address e-mail

The screenshot shows the 'Mail as Attachment Settings' dialog box in the IBM iSeries Access for Web interface. The dialog box is titled 'Mail as Attachment Settings' and has a 'From' field set to 'cminer@us.ibm.com'. The 'To' field is set to 'smshao@us.ibm.com'. The 'Subject' field is set to 'Today's Job Log'. The 'Attachment' field is set to 'Attachment: QPJOBLOG.244790.CMINER.QDFTJOB.D.1.PDF', which is circled in yellow. The 'OK' and 'Cancel' buttons are visible at the bottom of the dialog box. The background shows the IBM iSeries Access for Web interface with a navigation menu on the left and a main content area.

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- Printing
- Database
- Files
- Messages
- Commands
- 5250
- My Folder



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My Folder - V5R2

IBM  server iSeries

My Folder

- **Container resides on the web server and can only be accessed by owner**
 - An easy way to avoid large attachments (for example a large query result)
- **Can place information in other users' My Folders**
 - Mechanism for workflow.
- **Combine new 'Mail' function with 'My Folder' function**
 - Send email to others when I place information in their folder
 - Be notified when new items are placed in my folder.

'Mail' or 'Personal Folder' is good for:

- **Long-running requests (actions performed asynchronously so the browser is not tied up)**
- **Perform requests for someone else or distribute results to a group of users**

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Notes: Mail and My Folder

New 'My Folder' Support

The V5R2 iSeries Access for Web has 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

New '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. 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. To use the Mail function you must first have an e-mail address configured for your user profile. Your administrator could configure this for you or 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. The administrator must also specify the name of the SMTP mail server to be used by a user or group profile.

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Choose 'Personal Folder' as output

The screenshot shows the 'PDF Output Settings' page in the IBM iSeries Access for Web interface. The left sidebar contains navigation options like 'My Folder', 'My Home Page', 'Print', 'Printer output', 'Printers', 'Internet printers', 'Printer shares', 'Output queues', 'Messages', 'Jobs', '5250', 'Database', 'Files', 'Command', 'Customize', and 'Other'. The main content area is titled 'PDF Output Settings' and includes the following fields:

- PDF device type: *IP40300
- Drawer 1 paper size: *LETTER
- Drawer 2 paper size: *LETTER
- Destination: Personal folder (with a dropdown menu open showing options: Browser, Mail as attachment, Personal folder)
- Restore original p

There is a 'Run' button and a 'Settings' button next to the Destination dropdown. Below the settings is the 'Device Type Details' section:

Device Type Details

Specifies the type of printer device that the IPDS to PDF transform will emulate.

***IP40240**

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:

- o Object area shading and page area shading is supported.

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Select Folders to receive your output

IBM @server iSeries

The screenshot shows the 'Browse Folder Owners' dialog box in the IBM iSeries Access for Web interface. The dialog box is titled 'Browse Folder Owners' and contains a list of folder owners. The list is as follows:

- 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

At the bottom of the dialog box are 'OK' and 'Cancel' buttons.

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My Folder (V5R2)

webaccess rchas1@

My Folder

My Home Page

Print

Messages

Jobs

5250

Database

Files

Command

Customize

Other

Related Links:

[iSeries Access for Web Client Access](#)

[Operations Navigator](#)

[WebSphere Host Publisher](#)

[iSeries Information](#)

Item	Status	From	Date/Time	Size	Action
<input type="checkbox"/> SBMJOB	Unopened	webaccess	5/3/02 12:32 PM	82	Open Delete Rename Mark opened

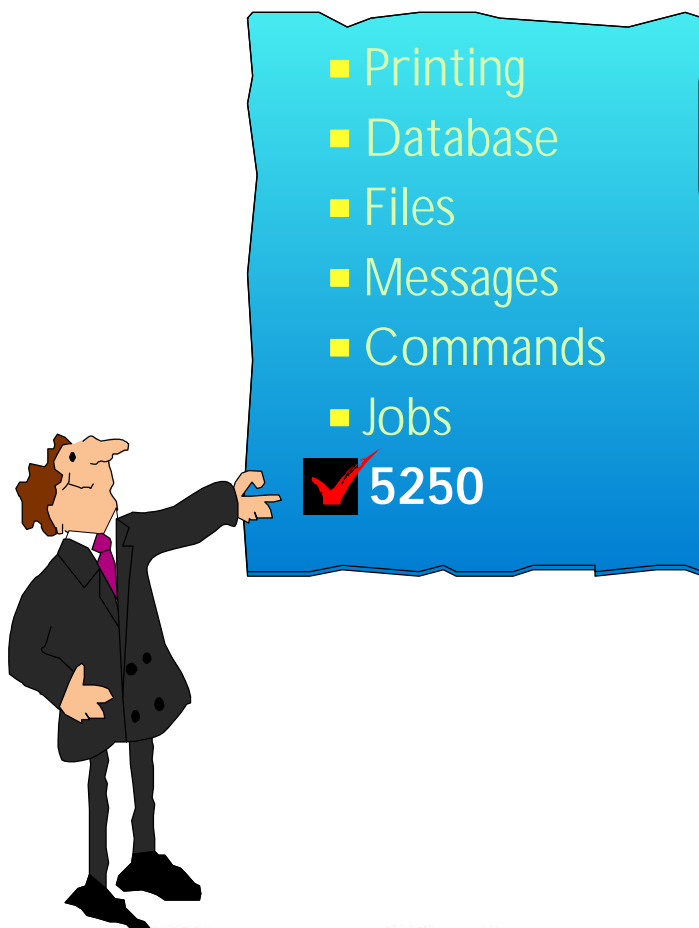
Delete Selected Items

[Mark all opened](#)
Change the status of all items in this folder to opened

[Mark all unopened](#)
Change the status of all items in this folder to unopened

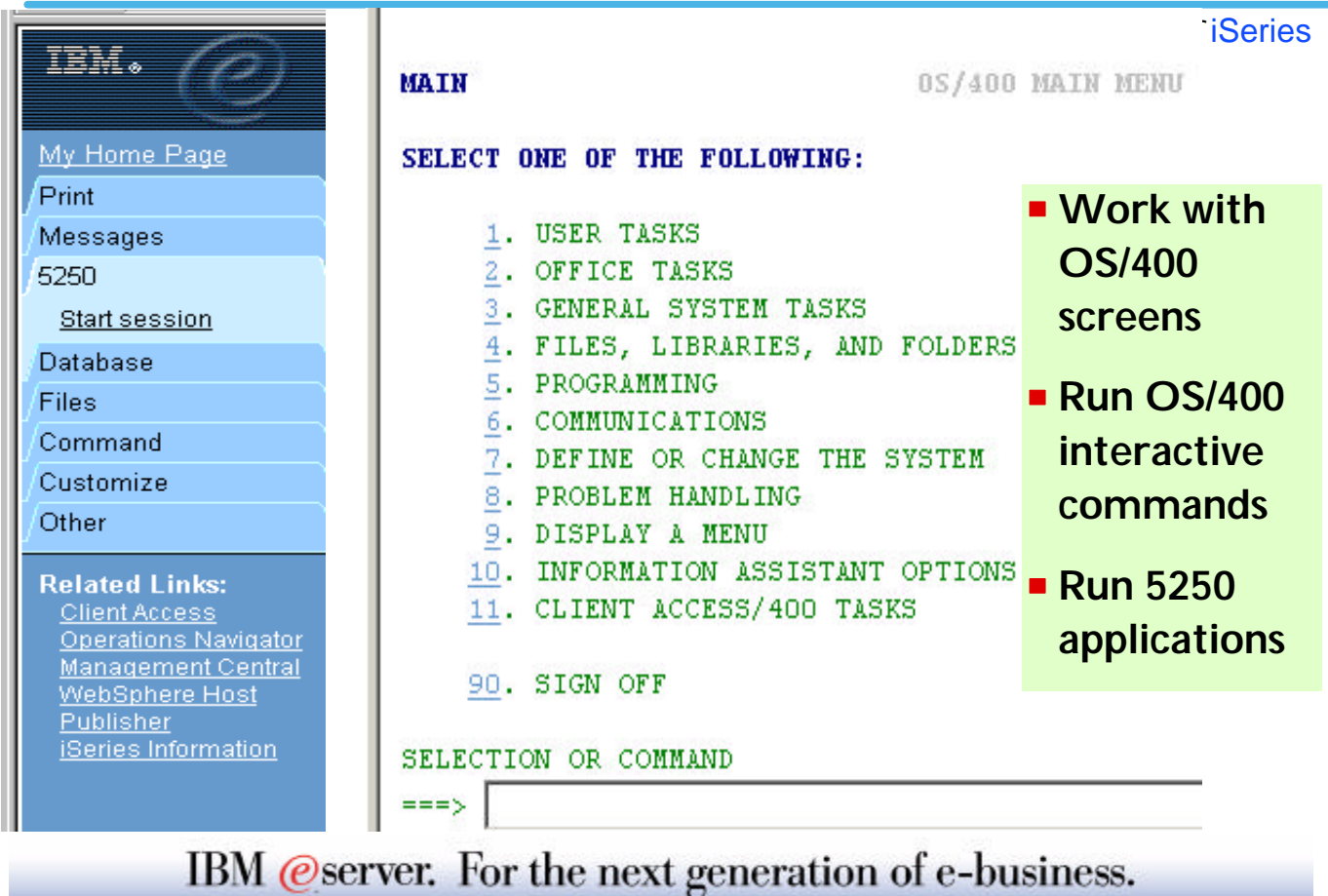
[Delete all opened items](#)

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5250 Sessions

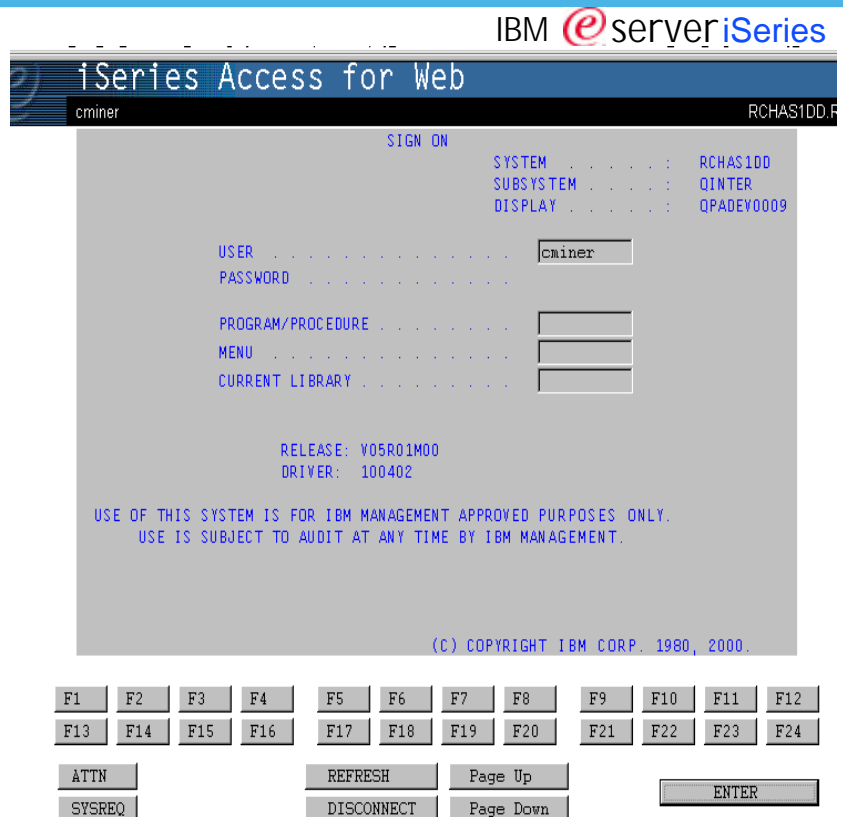


The screenshot shows the IBM @server iSeries OS/400 Main Menu. On the left is a navigation sidebar with links like 'My Home Page', 'Print', 'Messages', '5250', 'Start session', 'Database', 'Files', 'Command', 'Customize', and 'Other'. Below these are 'Related Links' such as 'Client Access', 'Operations Navigator', 'Management Central', 'WebSphere Host', 'Publisher', and 'iSeries Information'. The main content area is titled 'MAIN OS/400 MAIN MENU' and asks the user to 'SELECT ONE OF THE FOLLOWING:'. A list of 11 numbered options is displayed in green text, including 'USER TASKS', 'OFFICE TASKS', 'GENERAL SYSTEM TASKS', 'FILES, LIBRARIES, AND FOLDERS', 'PROGRAMMING', 'COMMUNICATIONS', 'DEFINE OR CHANGE THE SYSTEM', 'PROBLEM HANDLING', 'DISPLAY A MENU', 'INFORMATION ASSISTANT OPTIONS', and 'CLIENT ACCESS/400 TASKS'. Option 90 is 'SIGN OFF'. Below the list is a 'SELECTION OR COMMAND' field with a cursor. To the right of the menu, a green box contains three bullet points: 'Work with OS/400 screens', 'Run OS/400 interactive commands', and 'Run 5250 applications'. At the bottom, the IBM @server logo and the slogan 'For the next generation of e-business.' are displayed.

5250 Sessions - V5R1

- V5R1, 5722-XH1, iSeries Access has no 5250 function

- Calls Host Publisher V3.5 'Integrated 5250 XML Gateway' to perform 5250 functions

The screenshot shows the 'iSeries Access for Web' sign-on screen. The browser address bar shows 'IBM @server iSeries'. The page title is 'iSeries Access for Web'. The user is 'cminer' and the session ID is 'RCHAS1DD.F'. The screen displays a 'SIGN ON' form with fields for 'USER' (filled with 'cminer'), 'PASSWORD', 'PROGRAM/PROCEDURE', 'MENU', and 'CURRENT LIBRARY'. System information includes 'SYSTEM: RCHAS1DD', 'SUBSYSTEM: QINTER', and 'DISPLAY: OPADDEV0009'. Release and driver information are 'RELEASE: V05R01M00' and 'DRIVER: 100402'. A disclaimer states: 'USE OF THIS SYSTEM IS FOR IBM MANAGEMENT APPROVED PURPOSES ONLY. USE IS SUBJECT TO AUDIT AT ANY TIME BY IBM MANAGEMENT.' Copyright information '(C) COPYRIGHT IBM CORP. 1980, 2000.' is at the bottom. A keyboard layout is shown at the bottom of the screen, including function keys F1-F24, 'ATTN', 'SYSREQ', 'REFRESH', 'DISCONNECT', 'Page Up', 'Page Down', and 'ENTER'.

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5250 Sessions - V5R2

- V5R2, 5722-XH2, iSeries Access has its own integrated 5250 function



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Specify Workstation ID - V5R2

Need JavaScript to perform some functions in IE

- Can Specify a Workstation (device) ID
 - Wildcard support similar to PC5250
- Screen will auto-switch to 132 columns as needed

Notes: Configuring a 5250 Session

The following capabilities are available when using any supported browser on any desktop operating system:

Configured Sessions - this function is located on your '5250' tab and is used to configure a new session or to modify an existing session configuration. You can create multiple different sessions configurations for a single user. If you have an active session page and modify your configuration for this currently active session, you can use the 'Save' button to permanently save any settings you have changed in your current active session. Then later when you connect to your iSeries server, and select to 'Configured session', you can start any one of your previously configured sessions without having to provide any additional information. Other actions you can perform from this panel are:

- Edit - to change session configuration settings
- Delete - to delete a session configuration
- Configure new session - to create a new session configuration

Additionally, when you are using the 'Configured Sessions' function, you can specify to:

- Save As Defaults - this will save your current settings as your defaults. Then later if you configure a new session those saved default values will be used as your initial values, or if you simply select to 'Start Session', the default settings will be used to start the session
- Load Defaults - this button can be used to replace the current settings with the currently configured default settings.
- Load Shipped Defaults - pressing this button will replace the current settings with the shipped default settings. If you never use the Load Defaults button, then the Load Shipped Defaults has the same effect as the Load Defaults.

Active Sessions - this function is located on your 5250 tab and is used to display a list of your active 5250 sessions. Once a session is started, it remains active until it is either stopped or it times out after a period of inactivity. Closing the browser or signing off an active 5250 session does not stop the session. To stop a session and end the connection, you can:

- Stop - select the 'Stop' action displayed on the Active Sessions panel. This will end the session between the browser and the iSeries server. Another way to end an active session is to use the Stop Session button on a configured keypad.
- The Inactive session timeout policy controls how long a session can be idle before it times out and is ended. You can set a value in this policy by selecting the 'Customize' tab, then selecting either a User, Group, or Selected profile, then selecting '5250'. You can set the timeout value anywhere from 15 minutes to 7 days.
- Reconnect - if you leave an active session page to view another web page or you close the browser while a session is active, you can use 'Reconnect' on the Active Sessions panel to reconnect to an active session. You can also use the browser's back button. If you use the back button, use the Refresh Screen keypad button to synchronize the web page with the current 5250 session state.

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Example of Device ID

IBM @server iSeries



SIGN ON

SYSTEM : myiseries
 SUBSYSTEM : QINTER
 DISPLAY : CMINER1

USER : webaccess
 PASSWORD :
 PROGRAM/PROCEDURE :
 MENU :
 CURRENT LIBRARY :

RELEASE: V05R01M00
 DRIVER: 100402

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

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Notes: Configuring a 5250 Session

The following capabilities are available when using any supported browser on any desktop operating system:

Workstation ID - this enables you to identify the device name (DEVNAME) that you wish to use for your 5250 user interface session. Then when a session is started, the device name you selected will be displayed in the Display field of the active session sign-on screen.

- Use user ID - tells iSeries Access for Web to use the already authenticated user ID for the workstation ID.
- Specify workstation ID - tells iSeries Access for Web to use a workstation ID you have chosen. The maximum length for this value is ten characters. Additional characters are truncated. The workstation ID cannot start with a number and it cannot contain a blank or any of the following characters: &, *, %, =, +. If you choose this option and do not enter a value, then the iSeries server will generate a workstation ID
- Avoid duplicates for this user - when this option is enabled, the 5250 user interface adds a wild card character to the device name to make it unique for the current user. If the specified device name already contains ten characters, the last character is truncated before adding the wild card character. If this option is not enabled, only one session can be started with the specified device name. Start session requests with the same name cannot be started.
- Avoid duplicates with other users - this option will eliminate device name conflicts with other users on the same server. When this option is enabled, the iSeries server adds a wild card character to the device name to make it unique for all users on the server. If the specified device name already contains ten characters, the last character is truncated before adding the wild card character. If this option is not enabled, only one session can be started with the specified device name for the specified server. Start session requests with the same name cannot be started.

Port / Code Page - you can identify what iSeries port to use and your desired NLV code page.

132 column support - In the V5R1 release you had only the ability to have an 80-column session. With V5R2, the 5250 interface will auto-switch into 132 column mode as needed.

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New Integrated 5250 Interface

IBM @server iSeries

USER **USER TASKS**

SELECT ONE OF THE FOLLOWING:

- 1. DISPLAY OR CHANGE YOUR JOB
- 2. DISPLAY MESSAGES
- 3. SEND A MESSAGE
- 4. SUBMIT A JOB
- 5. WORK WITH YOUR SPOOLED OUTPUT FILES
- 6. WORK WITH YOUR BATCH JOBS
- 7. DISPLAY OR CHANGE YOUR LIBRARY LIST
- 8. CHANGE YOUR PASSWORD
- 9. CHANGE YOUR USER PROFILE
- 60. MORE USER TASK OPTIONS
- 90. SIGN OFF

SELECTION OR COMMAND
===>

**F3=EXIT F4=PROMPT F9=RETRIEVE F12=CANCEL F13=INFORMATION ASSIST
F16=AS/400 MAIN MENU**

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Notes: Keypads, Macros, etc

The following capabilities are available when using any supported browser on any desktop operating system:

Keypad customization - keypads contain buttons for invoking actions such as function keys and macros. You can use 'My Keypads' to configure the number, location, and content of keypads displayed on active 5250 sessions. The configuration of the keypads is used for all sessions and is not associated with a specific session configuration. Options for customizing the use of keypads are:

- **Configure Keypad** - associates actions with each button in the keypad. The list of available actions is displayed in a drop-down list for each button. A value of None indicates a button is not displayed in the specified keypad position. Not showing selected buttons is useful for arranging buttons so they are easier to locate visually-customizable keypads
- **Show Keypad** - identifies where the keypad is to be displayed (above, next to, or below the 5250 screen). Keypad settings enable you to have any combination of the top, side, and bottom keypads displayed. The default is to display the bottom keypad only.
- **Keypad Layout** - identifies the number of rows and columns you want displayed. After changing the keypad size, you can use the Configure button to define the actions associated with each button. Decreasing the size of a keypad without reconfiguring it removes buttons and their associated functions. Increasing the size of a keypad without reconfiguring it, does not add additional buttons.

Macro support - macros can be used to automate repetitive tasks. The macro support in the 5250 interface in iSeries Access for Web is different than the support in PC5250 emulation in iSeries Access for Windows. PC5250 macros contain a series of keystrokes, whereas the iSeries Access for Web 5250 user interface macros contain a series of cursor position commands and user input. You can perform the following macro functions:

- **Record a macro** - to create a macro, use the 'Start Recording' button on an active session page. Once recording is started, all subsequent cursor position changes and user input are recorded in the macro. Recording can be paused with the 'Pause Recording' button. Recording resumes with the 'Resume Recording' button. To stop the recording process, use the 'Stop Recording' button. To save the macro after recording, you specify a unique name in the 'My Macros' list.
- **Play a macro** - to play a macro, choose the macro from the drop-down list on the active session page and click the 'Play' button. Macros can be used in any session, regardless of where they were created, and you can also assign macros to keypad buttons.

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Configuring a 5250 Session

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View		?	
Web		Traditional	
<input type="checkbox"/>	Show navigation bar	<input checked="" type="checkbox"/>	Show navigation bar
<input checked="" type="checkbox"/>	Display text using fixed width font	<input checked="" type="checkbox"/>	Display text using fixed width font
<input type="checkbox"/>	Enable "More..." as button	<input type="checkbox"/>	Enable "More..." as button
<input checked="" type="checkbox"/>	Enable menu items as links	<input type="checkbox"/>	Enable menu items as links
<input type="checkbox"/>	Show function key bar	<input checked="" type="checkbox"/>	Show function key bar
<input type="checkbox"/>	Enable macros	<input checked="" type="checkbox"/>	Enable macros
<input checked="" type="checkbox"/>	Enable cursor positioning	<input type="checkbox"/>	Enable cursor positioning
<input checked="" type="checkbox"/>	Enable message text line as help link	<input type="checkbox"/>	Enable message text line as help link
<input type="checkbox"/>	Enable active function keys as buttons	<input type="checkbox"/>	Enable active function keys as buttons
<input type="checkbox"/>	Show function key text (Fxx=) on button		

Foreground colors		Foreground colors	
5250	Browser	5250	Browser
Black:	<input type="text" value="Black"/>	Black:	<input type="text" value="Black"/>
Blue:	<input type="text" value="Navy"/>	Blue:	<input type="text" value="Navy"/>
Green:	<input type="text" value="Green"/>	Green:	<input type="text" value="Green"/>
Cyan:	<input type="text" value="Teal"/>	Cyan:	<input type="text" value="Teal"/>
Red:	<input type="text" value="Maroon"/>	Red:	<input type="text" value="Maroon"/>

Setting up Web View and Traditional View



Setting display colors



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Notes: Customizing a 5250 Session

Switching Views - two views, Web View and Traditional View, are provided. The view style can be changed while a session is active. The supported views are:

- Web View - (default) presents 5250 screens that will look similar to other web pages. The web view uses links for menu options, cursor positioning, and retrieving message text help. Since the browser's default background colors are used for displaying screens, you can modify colors through your browser tools.
- Traditional View - the traditional view preserves the 5250 look and feel and behaves more like a typical 5250 user interface rather than a web page. By default, the familiar 5250 color scheme is used, but can be changed through the iSeries Access for Web configuration options.
- Additionally, either view can be customized for: menu items as links; function key descriptions as buttons; "more..." as button, message area as link; fixed versus proportional font; show/hide navigation bar; show/hide function key bar; enable/disable macros

Enable cursor positioning - this setting specifies whether non-input fields are implemented as links or as plain text.

- If non-input fields are implemented as links, choosing a link updates the current cursor position for the active session. This is useful for functions which use the current cursor position.
- If Enable message text line as help link is also enabled, the message text setting overrides the cursor positioning behavior. This will enable you to perform a number of iSeries functions to complete tasks such as:
 - When prompting a command, the F1 key displays help for a parameter if the cursor is positioned on a parameter name.
 - When prompting a command the F4 key displays possible values for a parameter if the cursor is positioned in the input area for a parameter.
 - If the cursor is positioned on the command line, the F9 key retrieves previously run commands.

Enable active function keys as buttons - this setting specifies whether the active function keys are enabled as buttons or displayed as text. If configure this way, you do not need to use your mouse to press a button to enable a function key - you can simply press the function key on my keyboard to evoke the function key. Even if you chose to display the function keys as text, you can also combine invoking the use of the function key bar, a configured keypad, or the function keys on the keyboard through additional configuration options.

- One thing to note is that you can only use keyboard keys (other than the Enter key) if you are running Internet Explorer, and have also checked the box under 'General' that says 'Enable advanced JavaScript functions for Internet Explorer'. Use of the Enter key is supported with both Netscape and Internet Explorer (when running on a Windows desktop) when the JavaScript function is enabled. If you are using Netscape or Opera browsers, or not running on Windows desktops, then you will particularly like the new capabilities for displaying where the function key bar is placed on the 5250 screen (above, below, on the side), and the ability to set up customized keypads to define what functions keys are displayed.

Enable "More..." as button - if you check this box then you will need to use your mouse to press a button on fields containing "More...". If you don't check this field, then "More..." fields will be displayed as text and you can retrieve additional pages by using a page down key on they keyboard (or optionally a keypad).



Customize Timeout Value

Policy	Derived From	Action	Setting
5250 tab	Shipped default	Use current setting	Show
Start 5250 sessions	Shipped default	Use current setting	Allow
Inactive session timeout	Shipped default	Use current setting	24 hours

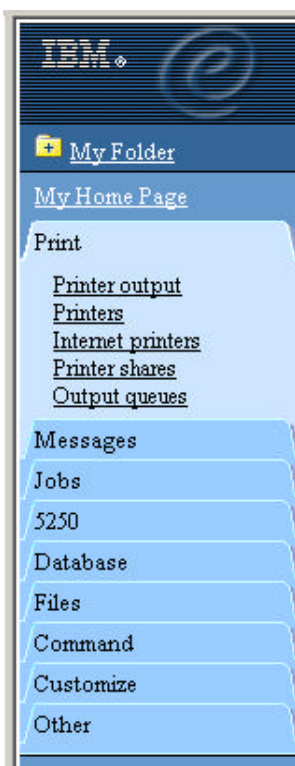
Telnet sessions not automatically freed up by OS/400 when browser closed

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Basic Printer tasks an **End User** might want to do...



Access printers and printer output on your iSeries server with iSeries Access for Web

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

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Notes: Printing Support

iSeries Access for Web provides a simple web type interface to work with print related objects on the iSeries. The Print objects may be accessed through the "Print" tab or the url "http://<yourServer>/webaccess/iWAMain?tab=print". The Print tab contains five links: Printer Output, Printers, Internet Printers, Printer Shares and Output Queues. Access to these objects can be restricted by customizing the policies of the Print function. On selection of the Print tab, the user is presented with links to each of the options available on the expanded Print tab and a short description of the function each option performs. You can access the print objects by selecting them on the description page or by selecting one of the options on the Print tab itself.

Printer Output - The default policy settings for Printer Output, presents the user with a list of all of the spooled files which exist on the system for the signed on user. The list of spooled files includes important information about the spooled file such as file name, creation date and time, pages per copy and status. A list of actions that may be performed on the spooled file is also provided. The attributes displayed and the spooled file actions allowed, are customizable through the Preferences option on the Customize tab. The actions which may be performed on a spooled file include the ability to Hold, Release and cause the spooled file to be printed next. You may also preview the spooled file in GIF, TIFF, PCL or AFP formats. There are two ways to preview AFP formatted spooled files. You may use the AFP viewer plugin or the AFP Viewer program shipped with Client Access Express. The AFP Viewer program can also be used to view SCS spooled files. Most types of spooled files may be viewed in GIF, TIFF and PCL formats.

Printers - The default policy settings for the Printers list, provides the user with the basic view of all the printers which exist on the system. The list of printers includes attributes of the printer such as name, description and current status. It also provides a list of actions that may be performed on the printer. The type of printer view ie Basic or Advanced and the attributes displayed and the actions allowed, are customizable through the Preferences option on the

Customize tab. The actions which may be performed on a printer using the advanced view Vary on and Vary off the printer device, Hold and Release the output queue associated with the printer and Hold, Release, Start and Stop the writer job associated with the printer. If the writer job has a message waiting on it, you may also view and answer the message.

Internet Printers - The default policy settings for the Internet Printers list, provides the user with a list of all the Internet printers which have been configured on the system. The list of printers includes attributes of the printer such as name, output queue, url, data type, printer file and authentication method. You may select the linked name of the output queue to see a list of all spooled files that reside on the output queue and if the internet printer is a defined printer device, you may click on the linked name to list and work with the printer.

Printer Shares - The default policy settings for the Printer Shares list, provides the user with a list of all the Printer Shares which have been configured on the system. The list of printer shares includes attributes of the printer share such as name, output queue, printer driver, data type, number of users and description. You may select the linked name of the output queue to see a list of all spooled files that reside on the output queue and if the share is a defined printer device, you may click on the linked name to list and work with the printer.

Output Queues - The default policy settings for the Output Queues list, provides the user with a list of all the output queues which have been configured on the system. The list of output queues includes attributes of the output queue such as name, status, number of files and writer name. A list of actions that may be performed on the output queue is also provided. The attributes displayed and the output queue actions allowed, are customizable through the Preferences option on the Customize tab. The actions which may be performed on an output queue include Hold and Release. You may also select the linked name of the output queue to see a list of all spooled files that reside on the output queue.

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 routed to the iSeries integrated file system for "downstream" electronic access**
- **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**

**New in
V5R1**

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Notes: Infoprint Server for iSeries

Infoprint Server for iSeries integrates PDF support into the OS/400® output architecture. The PDF subsystem enables the production of PDF from any standard OS/400 output format — SCS, AFP™, IPDS™, even OfficeVision/400™ format. PDF transformation creates text-based, non-image ASCII PDF. This ability to create full text PDF files delivers document fidelity while preserving the ability to navigate through the document or report. Text-based PDF is far smaller than PDF created as full-page image. This means superior network and user performance characteristics. PDF files can be written to the Integrated File System (IFS), iSeries output queues, or passed to the automatic e-mail function.

Web-ready AFP output - A key strength of the AFP architecture is the division of documents into logical components. The AFP print file may only contain application data while overlay, image, and font resources are stored externally. This works well for printing when the iSeries is in control but limits the ability to distribute AFP data electronically. Infoprint Server resolves this problem by enabling the creation of portable, or Web-ready, AFP data. This is accomplished by embedding the external resources within the distribution file. Infoprint Server also adds the ability to index the AFP data enabling easy navigation through the document or report. At the receiving end, there is a downloadable AFP plug-in for Web browsers that resolves this Web-ready output file for viewing.

Networked printing - A core focus of Infoprint Server is applying the substantial print management capabilities of iSeries servers to the proliferation of output pages and printers in today's typical enterprise networks. Client, network, and even ERP applications are generating documents and reports in ASCII data streams — PostScript®, PDF, and PCL — that are designed for personal and workgroup applications. While printing personal applications on personal printers works satisfactorily, printing business applications on network-attached printers can create both financial and management problems. ASCII data streams lack the capabilities of iSeries servers to manage print jobs effectively page by page to the printer with full error recovery. Using many slow-speed network printers generally creates higher total printing costs than when the printing volume is consolidated on faster, more cost-effective printers, and provides no central point of control.

Infoprint Server provides the bridge to iSeries print management and iSeries-attached printers. Infoprint Server transforms use the integrated, iSeries transform infrastructure to convert PostScript, PDF, and PCL documents and reports to AFP. You simply route a target file to the iSeries and the print data stream will be automatically detected and the appropriate transform applied. Additionally, the PostScript and PDF to AFP transforms have been jointly developed by IBM and Adobe®, combining excellence and experience in both datastreams. The iSeries printing architecture is built around AFP, an architecture designed for high volumes and reliable delivery. The iSeries can apply its IPDS interactive dialog with the printer and superior printing management function to the task of printing the job. The control and management is assured regardless of whether printers are direct-attached or network-attached.

Printer Output

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iSeries Access for Web

webaccess

Printer Output for webaccess

◀◀ [1] ▶▶ 🔍

New in V5R2

File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	Action	Preview
QPRINT		3/28/02 1:09 PM	1	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	QPADEV000C	4/11/02 10:30 PM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	QPADEV000G	4/11/02 10:30 PM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPDSPAJB		4/11/02 10:07 AM	7	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	QPADEV000D	4/3/02 8:39 PM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	QPADEV0001	4/4/02 10:03 AM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	CMINER3	5/1/02 9:52 PM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	CMINER1	5/1/02 9:52 PM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPJOBLOG	QPADEV0007	5/1/02 9:52 PM	2	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPRINT		5/2/02 5:16 PM	1	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPAUTUSR		5/3/02 11:30 AM	5	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	
QPAUTUSR		5/3/02 11:31 AM	5	1	Ready	Hold Print Next Delete PDF GIF TIFF PCL AFP View	

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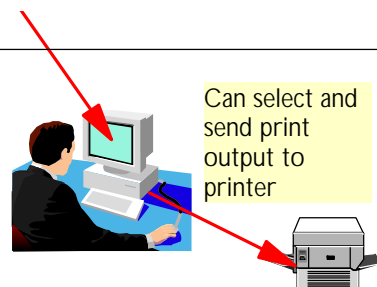
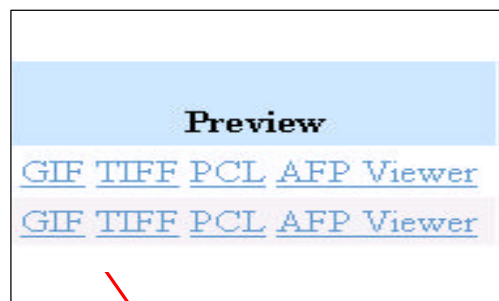
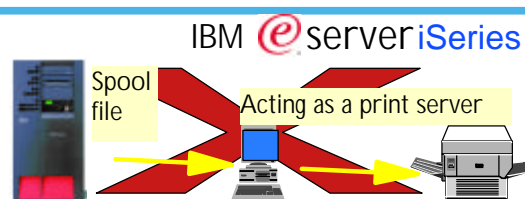
Printing

Printer Emulation

- **Not provided by Access for Web**

View and print SCS and AFP Spool File information via Access for Web 'Print' tab:

- **GIFs (AFP & SCS)** *Improved in V5R2*
 - With just your standard browser.
- **TIFF Viewer/Plugin (AFP & SCS)**
 - Windows 98 ships one
- **AFP Viewer (AFP & SCS)**
 - Comes with Client Access Express for Windows
- **AFP Plugin (AFP only)**
 - Download from IBM website
printers.ibm.com/R5PSC.NSF/Web/afpwb
- **PCL Plugin**
 - Without plugin, you could still download file to PC, then print it with PCL print driver



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Notes: Plugins

Plugins are tiny software programs that add functionality to your web browser. While your browser lets you view the images and text on most web pages, plug-ins add the capability to hear music or other sounds, watch full-motion video, or enjoy multimedia presentations.

- You can visit the Netscape plug-ins directory (<http://home.netscape.com/plugins/information.html?cp=pif>), where you can browse through all of the plug-ins that are currently available. Or, when you encounter a web page on the Internet that requires a plug-in, Netscape's "Plug-in Finder" will automatically offer you the plug-in you need.

Viewing other types of output:

- You can view AFP and SCS as GIFs with just your standard browser.
- You can view AFP and SCS output as TIFF using a TIFF viewer/plugin (Windows 98 & 2000 ship with one)
- You can view AFP and SCS output with AFP Viewer shipped with Client Access Express to view AFP and SCS output, you will need to associate the application with the AFP and SCS mime types. See next pages for directions.
- You can view AFP output with AFP plugin. The plugin can be downloaded from <http://www.printers.ibm.com/R5PSC.NSF/web/afpwb>.
- You can use a PCL Plugin. One is www.swiftview.com - plugin available for HP-UX, Solaris2.4, Windows 95/98/NT, Linux. Supports PCL, HPGL, TIFF, JPEG, and other formats.

AFP Viewer

Chapter 1. Preparing Your AFP Files for the Viewer

The Viewer displays files of the following format:

- AFP files
- ASCII files
- JPEG (JPEG File Interchange Format)
- GIF (Graphic Interchange Format) files
- TIFF (Tag Image File Format) files
- PCX (Picture Exchange File) files
- DCX (Multipage PCX) files
- Bitmap files

ASCII files can be up to 10000 lines in length. Your OSQ90 line data can be converted for use with the Viewer using the Advanced Function Presentation Conversion and Indexing Facility (ACIF). ACIF is provided with Print Services Facility/MVS, Version 2.1.1; Print Services Facility/VM, Version 2.1.1; and Print Services Facility for RISC/6000. For more information about using ACIF, see "Using ACIF to Create and Index Files for Viewing" on page 3.

AFP files that can be viewed are:

- Documents of up to 10000 pages
- Overlays
- Page segments

You can view files that were prepared using an OSQ90 host or a workstation. This chapter describes considerations when you prepare files from those two sources to use with the Viewer.

Preparing Data Files

The three major considerations for preparing files on an OSQ90 for the Viewer are:

- Converting line-data files to AFP
- Adding indexing information to AFP files for use with the Viewer's navigation capabilities
- Transferring AFP files from the host system, if necessary.

Converting Files to AFP

If you print OSQ90 line data with an AFP page definition, you must convert the line data output to AFP before using the output file with the Viewer. ACIF creates an AFP data stream output file with your AFP page definition applied to the line data produced by your application program. If any required AFP resources are not inline, they must be transferred to the workstation separately. For more information about transferring resource files to your workstation, see "Using AFP Resources with the Viewer" on page 4.

- Ships with Client Access Express for Windows
- Can use on Windows 95, 98, Me, NT 4.0, 2000, XP

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Set up AFP Viewer for Internet Explorer users

Edit File Type

Change icon...

Description of type: Print AFP

Content type (MIME): application/vnd.ibm.modcap

Default extension for content type: .afp

Actions:

- OPEN
- print

New... Edit... Remove Set Default

Confirm open after download

Always show extension Browse in same window

OK Cancel

Editing action for type: Print AFP

Action: OPEN

Application used to perform action: C:\Program Files\IBM\Client Access\AFPViewr

Use DDE

OK Cancel Browse...

Create 'New File Type' for

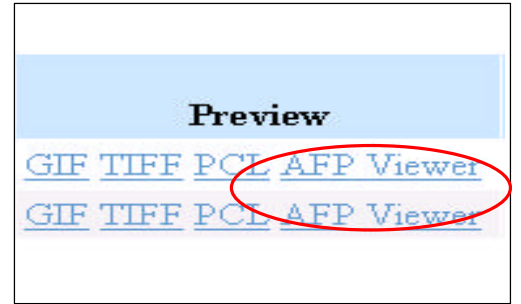
- AFP output
- SCS output

Notes: How to set up to use AFP Viewer for IE

Directions for using the AFP Viewer that ships with Client Access Express for Windows (5722-XE1)

1. Client Access Express for Windows (5722-XE1) is installed on your iSeries in folder /QIBM/ProdData/CA400/Express/Install/Image/. Map a network drive to your iSeries and get to this folder. Run the Setup.exe program contained in this folder.
2. Pick the 'Custom Install' option, then select **AFP Workbench Viewer**. You may also want to install the **Printer Drivers** (AFP Printer Driver and SCS printer Driver) too. Your AFP Viewer is now installed on your PC
3. Now you need to associate the AFP Viewer with the AFP and SCS mime types. Go into Explorer --> View --> Options. Then select File Types --> New Type.
4. Set up to print AFP output with the AFP Viewer.
 - Set Content Type (mime) = application/vnd.ibm.modcap
 - Set Default Extension for Content Type = afp
 - Add New Action = Open, then on next panel click on the Browse button to find the AFP Viewer .EXE (it should be in "C:\Program Files\IBM\Client Access\AFPViewr\ftdwinvw.exe")
 - Add another New Action = Print, then put in same path as above (ie, "C:\Program Files\IBM\Client Access\AFPViewr\ftdwinvw.exe")

Now you are ready to print AFP output.



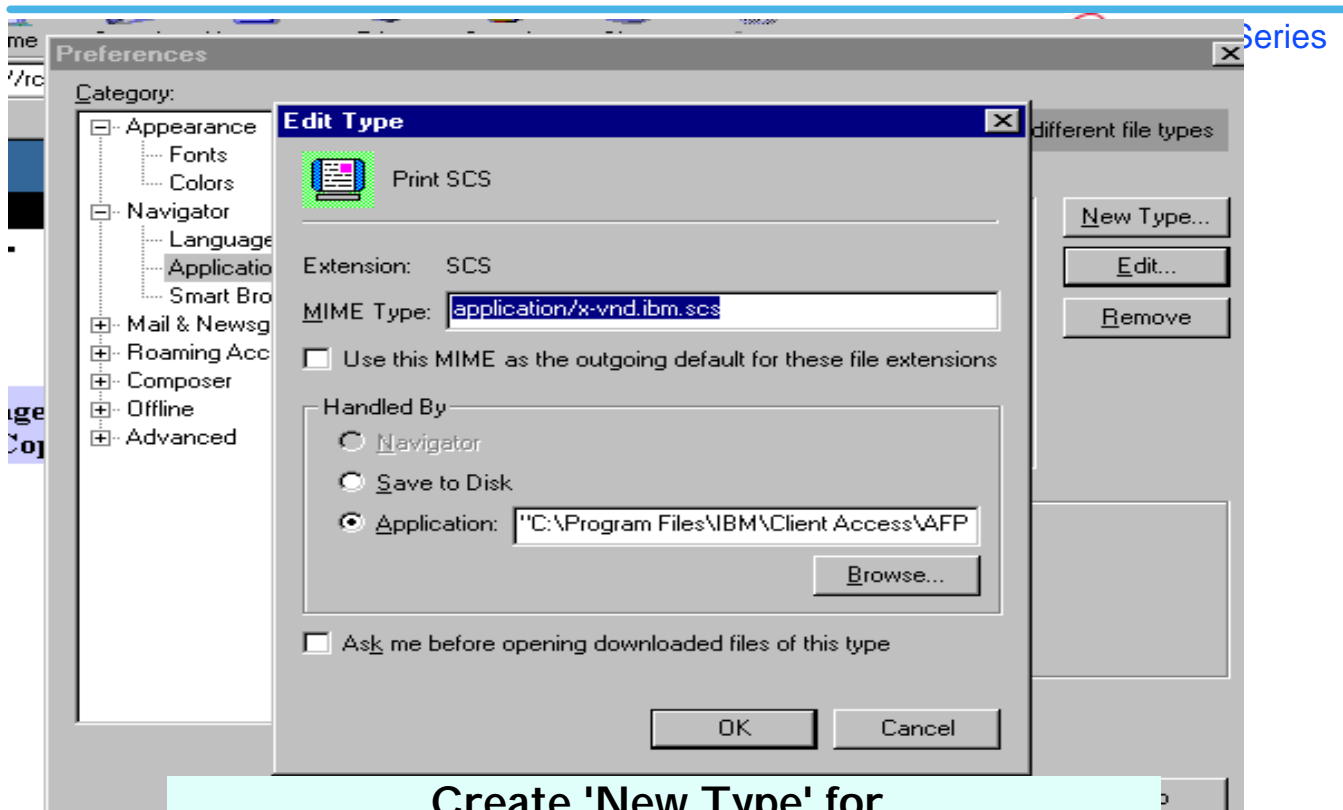
5. Set up to print SCS output with the AFP viewer.
 - Set Content Type (mime) = application/x-vnd.ibm.scs
 - Set Default Extension for Content Type = scs
 - Add New Action = Open, then on next panel click on the Browse button to find the AFP Viewer .EXE (it should be in "C:\Program Files\IBM\Client Access\AFPViewr\ftdwinvw.exe")
 - Add another New Action = Print, then put in same path as above (ie, "C:\Program Files\IBM\Client Access\AFPViewr\ftdwinvw.exe")

Now you are ready to print SCS output .

See next page for example of this information.

Notes: these are directions work for Internet Explorer

Set up AFP Viewer for Netscape users



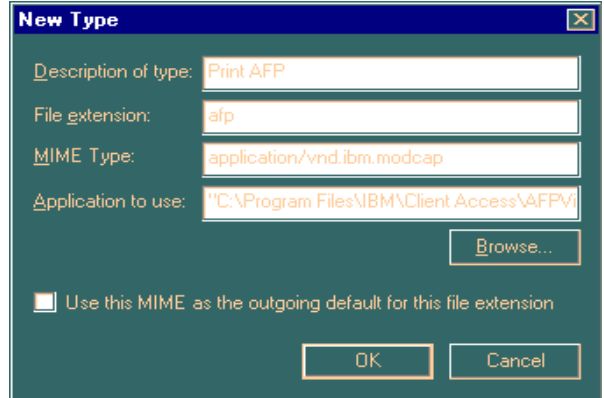
Create 'New Type' for

- **AFP output**
- **SCS output**

Notes: How to set up to use AFP Viewer for Netscape

Directions for using the AFP Viewer that ships with Client Access Express for Windows (5722-XE1)

- Client Access Express for Windows (5722-XE1) is installed on your iSeries in folder /QIBM/ProdData/CA400/Express/Install/Image/. Map a network drive to your iSeries and get to this folder. Run the Setup.exe program contained in this folder.
- Pick the 'Custom Install' option, then select **AFP Workbench Viewer**. You may also want to install the **Printer Drivers** (AFP Printer Driver and SCS printer Driver) too. Your AFP Viewer is now installed on your PC
- Now you need to associate the AFP Viewer with the AFP and SCS mime types. Start Netscape, then select 'Edit' --> Preferences from toolbar. Then select 'Applications',
- Now create a 'New Type' to use with AFP output:
 - Description: Print AFP (or whatever name you wish)
 - Set File Extension = afp
 - Set Mime Type = application/vnd.ibm.modcap
 - Application to use: = "C:\Program Files\IBM\Client Access\AFPViewr\ftdwinvw.exe"
 Now you are ready to print AFP output.



- Set up to print SCS output with the AFP viewer.
 - Description: Print SCS (or whatever name you wish)
 - Set File Extension = scs
 - Set Mime Type = application/x-vnd.ibm.scs
 - Application to use: = "C:\Program Files\IBM\Client Access\AFPViewr\ftdwinvw.exe"
 Now you are ready to print SCS output .

Notes: these are directions work for Netscape

Printers

Printer	Printer Status	Printer Action	Printer Description	Output Queue
AFPMAYUS	Stopped	Make Unavailable Start	AFP Printer for test	QUSRSYS/AFPMAYUS
AFPRENATA	Unavailable	Make Available Start		QUSRSYS/AFPRENATA
APRINTER	Unavailable	Make Available Start	DEPTB	QUSRSYS/APRINTER
APRINTER1	Unavailable	Make Available Start	DEPTB	QUSRSYS/APRINTER1
ARENATA	Vary on pending	Make Unavailable Start	renata test printers	QUSRSYS/ARENATA
ATZA	Unavailable	Make Available Start	DEVICE CREATED FOR RCHAS1DD.	QUSRSYS/ATZA
DBMPDF	Unavailable	Make Available Start		QUSRSYS/DBMPDF
DBMSNMP	Stopped	Make Unavailable Start		QUSRSYS/DBMSNMP
IAWPDFRTR	Unavailable	Make Available Start		QUSRSYS/IAWPDFRTR
IWAAFP	Unavailable	Make Available Start	Printer for Access for Web	QUSRSYS/IWAAFP

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Internet Printers

Internet Printer	Output Queue	URL	Printer Data Type
IppScs	QUSRSYS/IPP	http://RCHAS1DD:631/ipp/printers/IppScs	SNA Character String
IppBasic	QUSRSYS/IPP	http://RCHAS1DD:631/ipp/printers/IppBasic	Auto-select
ARENATAip	QUSRSYS/ARENATA	http://RCHAS1DD:631/ipp/printers/ARENATAip	Auto-select
TWAAFP	QUSRSYS/TWAAFP	http://RCHAS1DD:631/ipp/printers/TWAAFP	Advanced function prin
IppPrinter	QUSRSYS/PRINTER	http://RCHAS1DD:631/ipp/printers/IppPrinter	Auto-select
Ipp	QUSRSYS/IPP	http://RCHAS1DD:631/ipp/printers/Ipp	Auto-select
DBMPDF	QUSRSYS/DBMPDF	http://RCHAS1DD:631/ipp/printers/DBMPDF	Auto-select

- **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.
- **These print resources can be controlled via Access for Web**
 - Can use the 'hold, release, delete, view' functions to work with these spooled file resources.

Notes: Internet Printers use IPP

IPP

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 will have to configuring 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.

IPP server is available in OS/400 V5R1.

The IPP driver requires V5R2.

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Internet Printer Support - OS/400 V5R1

Why use IPP?

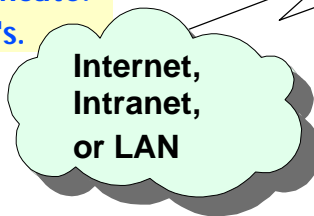
- End users can send print data over Internet, LAN and Company Intranet/Extranet.
- Secure connection (SSL) is available--encrypts print data.
- Client authentication is available--userid or user certificate.
- Industry standard--IETF RFC's.



Print Request

iSeries Access for Web user can:

- Hold, Release, Delete, View



Internet, Intranet, or LAN



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OS/400 V5R1

- IPP Server

Print Data



- IPP printer
- non-IPP printer

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Internet Printer Support - OS/400 V5R2

- IPP printer
- non-IPP printer



Print Data

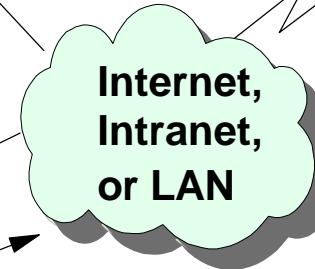
iSeries Access for Web user can:

- Hold, Release, Delete, View



OS/400 V5R1

- IPP Server



Internet, Intranet, or LAN

Print Request



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Printer Device Description = *LAN, 3812, Port 631, *IBMIPPDRV

New in OS/400 V5R2

- IPP Client
- IPP Printer Driver

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Notes: IPP Printer Support

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.

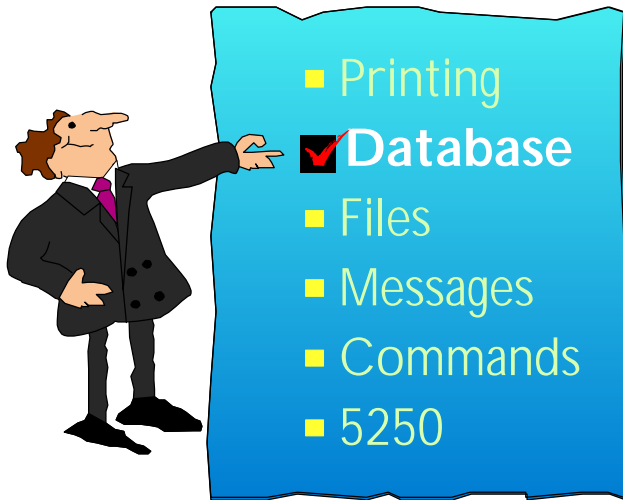
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Output Queues

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Output Queue	Status	Action	Files	Writer
QGPL/ADAFIN	Held	Release	0	
QGPL/ADAFIN1	Released	Hold	0	
QGPL/EFLORES	Released	Hold	0	
QGPL/GPA#	Released	Hold	0	
QGPL/OBJOUTQ2	Released	Hold	0	
QGPL/QDKT	Released	Hold	0	
QGPL/QPRINT	Released	Hold	6832	
QGPL/QPRINTS	Released	Hold	13	
QGPL/QPRINT2	Released	Hold	0	

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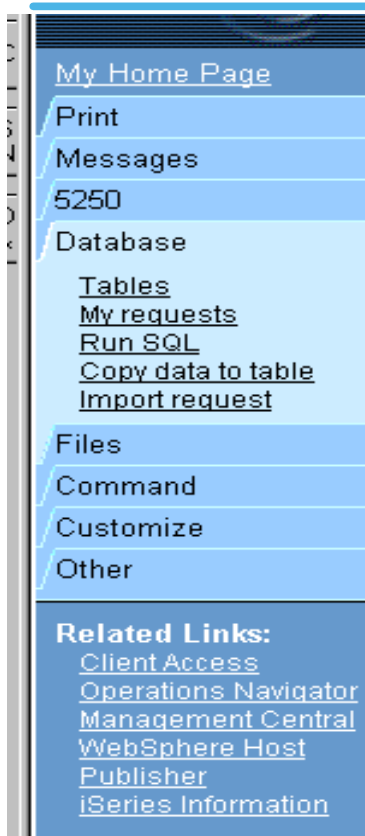


A camp for young students recently used the iSeries Access for Web database functions to query, view, and listen to MPEG files stored as BLOBs in the iSeries database.

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

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Work with iSeries Database



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**

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Notes: Access database tables on iSeries

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.

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iSeries Database Tables

5250 Tables filter: *USRLIBL

Database

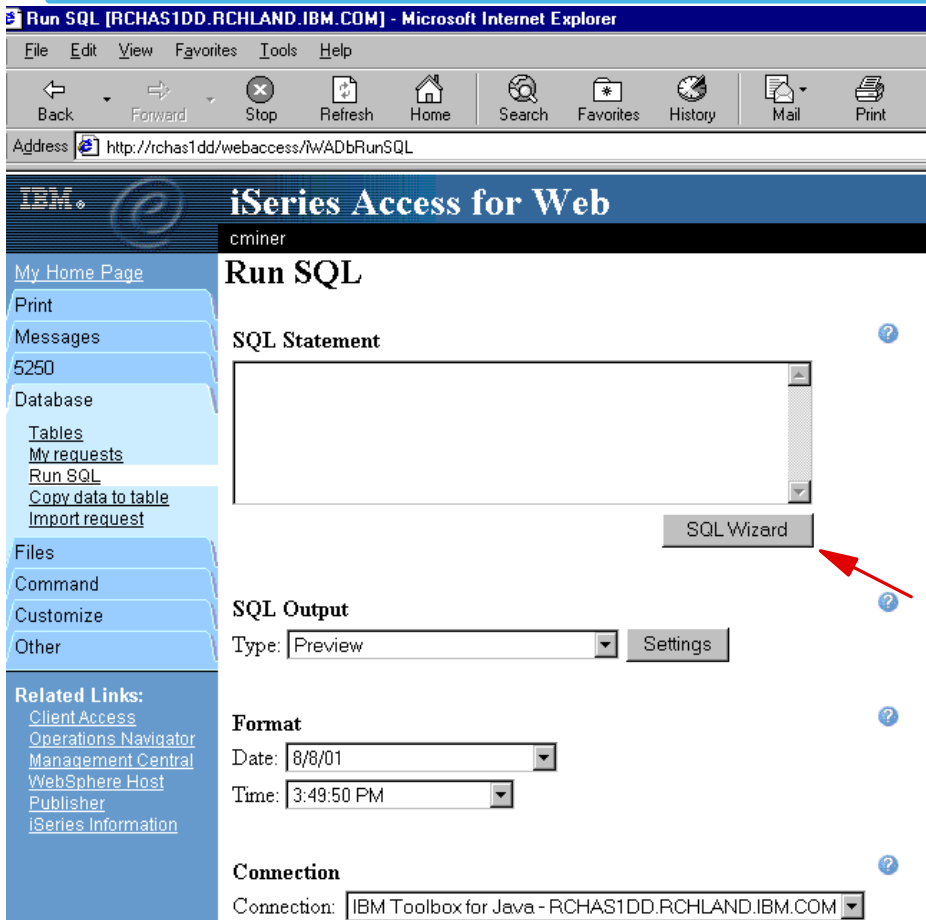
Tables [1]

Table	Description	Action
QGPL.BASICCSV		Insert Update Quick view Run SQL Copy data to table
QGPL.LK_105KTMM		Insert Update Quick view Run SQL Copy data to table
QGPL.QAOEFFVL	FORM FIELD VALID VALUES FILE	Insert Update Quick view Run SQL Copy data to table
QGPL.QASUUSRPM		Insert Update Quick view Run SQL Copy data to table
QGPL.QCLSRC	DEFAULT SOURCE DATA BASE FILE FOR CL SOURCE	Insert Update Quick view Run SQL Copy data to table
QGPL.QCMDSRC	DEFAULT SOURCE DATA BASE FILE FOR CMD DEF SRC	Insert Update Quick view Run SQL Copy data to table

Related Links:
[Client Access](#)
[Operations Navigator](#)
[Management Central](#)
[WebSphere Host](#)
[Publisher](#)
[iSeries Information](#)

Run SQL

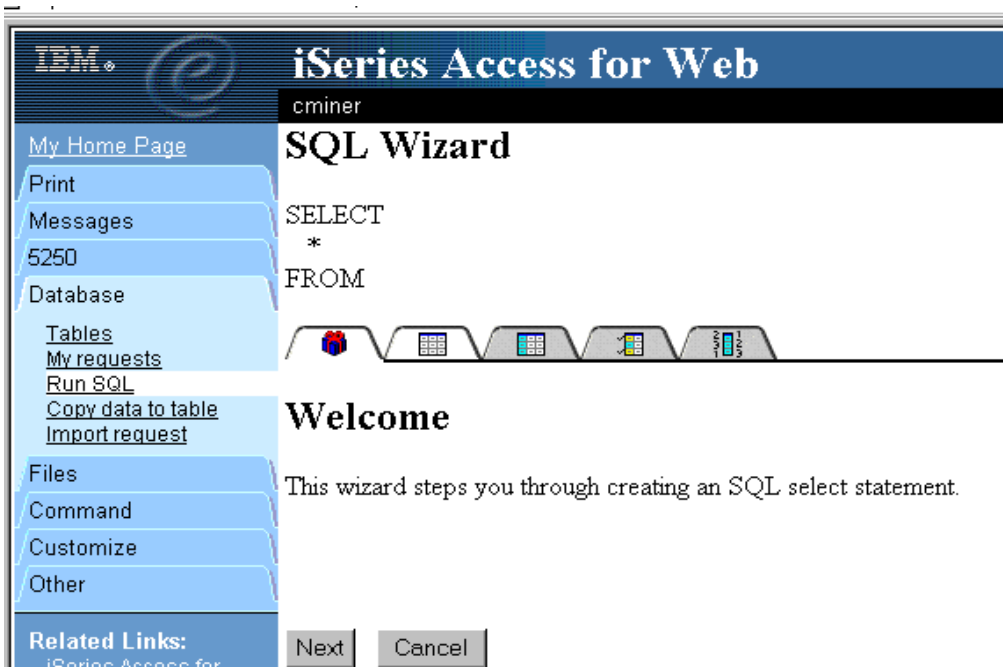
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- Run SQL allows you to dynamically run SQL statements
- Includes SQL Wizard

of e-business.

SQL Wizard



- 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

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Notes: Run SQL

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

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My Request Built Using SQL Wizard

SQL Statement

```
SELECT
  "CUSNUM", "BALDUE", "LSTNAM", "INIT",
  "STREET", "CITY", "STATE", "ZIPCOD"
FROM
  QIWS.QCUSTCDT
WHERE
```

SQL Output

Type: Extensible Markup Language (.xml) Settings

Destination: Browser Settings

Format

Date: 6/14/02

Time: 8:07:07 PM

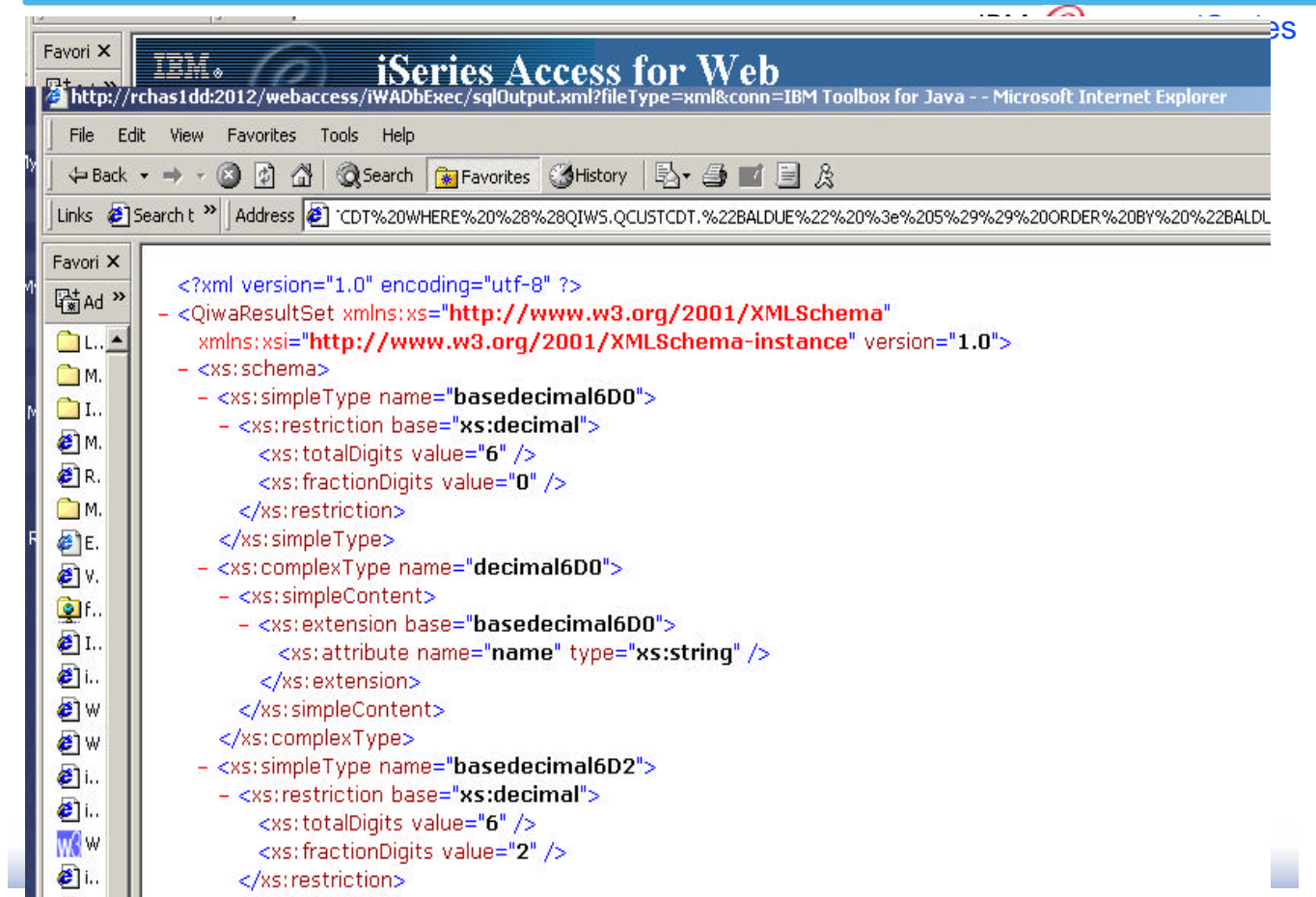
Connection

Connection: IBM Toolbox for Java - RCHAS1DD.RCHLAND.IBM.COM

New in V5R2 edition

- XML output type
- Destinations now include
 - Mail as an attachment
 - My Folder

Output Converted to XML



Notes: V5R2 Enhancements

Database

- New file types - .PDF and .XML (Excel)
 - Can download database information into .PDF. Can configure functions such as page size, orientation, margins, table header and footer, column heading, table style, alignment...
 - Can download or upload .XML. Could be used to interchange data with other XML-enabled applications
- New destinations
 - Can mail results to another user or to yourself, and can receive query status in e-mail
 - Can place result in another user's folder or in your own folder, and can receive query status in your own folder

Integrated File System (IFS)

- New actions include:
 - Copy file, rename file and directory, delete file and directory, mail file as attachment, and create directory

Worldwide downloadable beta now available at

- <http://www.ibm.com/eserver/series/clientaccess/web/>

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Requests I can run

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

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Upload Data

File to Copy

File:

File type:

Character set:

Table to Rec

Table:

Action:

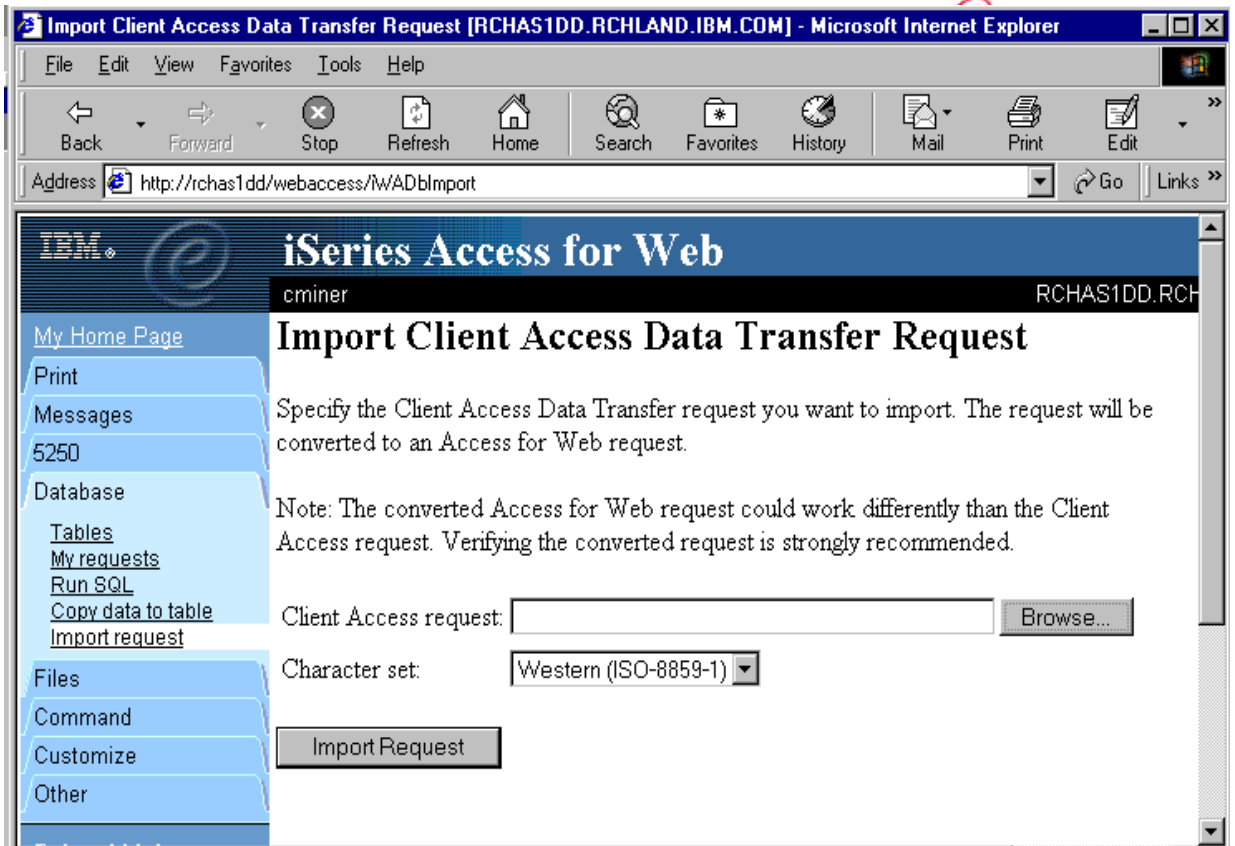
Connection

Connection:

- Upload data from spreadsheet to database
- Can 'Replace' contents of table or 'Append' to existing data

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Import a Client Access Data Transfer request



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Access Files on Your iSeries Server

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- Upload and download files via:
- Integrated File System (IFS)
 - Navigate and browse the directories located on your iSeries server IFS
 - Using File Manager like interface
- iSeries NetServer
 - View a list of the iSeries NetServer file shares
 - Browse the NetServer file shares and navigate the directories from the file share list
 - Using File Manager like interface

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Work with PC Files in the IFS

New actions in the V5R2 version include:

- Copy file
- Rename file and directory
- Delete file and directory
- Mail file as attachment
- Create directory

Name	Size (bytes)	Type	Mod	
<u>../ (Parent Directory)</u>				
5250Customize.bmp	2359350	File	05/23/2002 10:54:32 PM	Copy Rename Delete Mail
5250CustomizeMore.bmp	2359350	File	05/23/2002 10:54:50 PM	Copy Rename Delete Mail
AFPviewer1.bmp	787510	File	05/23/2002 10:55:05 PM	Copy Rename Delete Mail
BIRDSING.BMP	26678	File	06/13/2002 02:38:08 PM	Copy Rename Delete Mail
Bri3Fish.bmp	6632934	File	05/23/2002 10:56:14 PM	Copy Rename Delete Mail

Copy Files to IFS

IBM @serveriSeries

The screenshot shows a web-based file management interface. On the left is a directory tree with folders like '1cientoveinticiete', 'ASFTomcat', 'boats', 'bschulz', 'cache', 'CALAB', 'celi', 'CMINER', 'CMSLFD01', 'csky', 'csmith', 'daw', 'dev', 'drive1', 'etc', 'Excite_demo', and 'FOLDER1'. The main area displays a list of files:

AFPviewer1.bmp	787510	File	05/23/2002 10:55:05 PM	Copy Rename Delete Mail
BIRDSING.BMP	26678	File	06/13/2002 02:38:08 PM	Copy Rename Delete Mail
Bri3Fish.bmp	6632934	File	05/23/2002 10:56:14 PM	Copy Rename Delete Mail
News121.doc	20992	File	05/23/2002 11:00:56 PM	Copy Rename Delete Mail
PAINTER1.BMP	26678	File	05/23/2002 10:57:30 PM	Copy Rename Delete Mail

Below the file list is a dialog box titled 'Copy Files to Server'. It contains the text: 'Specify the file to copy to directory /CMINER on RCHAS1DD.RCHLAND.IBM.COM. Data is copied in binary format.' There is a 'File:' input field with a 'Browse...' button, a checkbox for 'Replace file', and a 'Copy File' button. This dialog box is circled in red.

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Notes: File Mime-Type Mapping

Access for Web uses the file extension to determine the file content types. The file content type is used by the browser to determine how best to render the information. For example, files with an extension of .htm, .html, or .txt are rendered in the browser windows. The browser will also attempt to determine what browser plugin to use for the given file content type. For example, a file with a .pdf extension will cause the browser to attempt to load the Adobe Acrobat Reader.

Access for Web provides a way to extend or override our shipped file extension to file content mapping. This can be done by creating a file call extensions.properties in /QIBM/UserData/Access/Web/Config directory. Some examples of extension.properties entries are:

```
out=text/plain
lwp=application/vnd.lotus-wordpro
```

A list of file content types, also known as mime-types, can be found at <http://ftp.isi.edu/in-notes/iana/assignments/media-types/media-types>.

See example of information there at right.

MEDIA TYPES
(last updated 2001 August 16)

[RFC2045,RFC2046] specifies that Content Types, Content Subtypes, Character Sets, Access Types, and conversion values for MIME mail will be assigned and listed by the IANA.

Content Types and Subtypes

Type	Subtype	Reference
----	-----	-----
text	plain	[RFC2646,RFC2046]
	richtext	[RFC2045,RFC2046]
	enriched	[RFC1896]
	tab-separated-values	[Paul Lindner]
	html	[RFC2854]
	sgml	[RFC1874]
	vnd.latex-z	[Lubos]
	vnd.fmi.flexstor	[Hurttta]
	uri-list	[RFC2483]
	vnd.abc	[Allen]
	rfc822-headers	[RFC1892]
	vnd.in3d.3dml	[Powers]
	prs.lines.tag	[Lines]
	vnd.in3d.spot	[Powers]
	css	[RFC2318]
	xml	[RFC3023]

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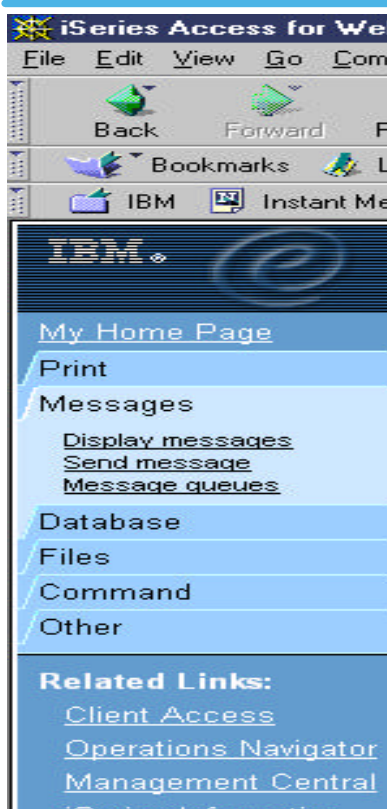
- Printing
- Database
- Files
- Messages
- Commands
- 5250



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Messages

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Access messages on your iSeries server with iSeries Access for Web

- Display messages
- Send messages
- Message queues

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Notes: Messages

Messages

Access messages on your iSeries server with iSeries Access for Web

Display messages

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

Send message

- Send a message to users and message queues

Message queues

- List message queues on the iSeries server. Select a message queue from the list and display messages in that message queue and manage messages

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Send a Message

The screenshot shows a web browser window with the title 'iSeries Access for Web'. The browser's address bar shows 'IBM Instant Message Internet Lookup New&Lool'. The page header includes the IBM logo, the text 'iSeries Access for Web', the user name 'jjvan', and the server identifier 'LPAR1B2M.R0'. A left-hand navigation menu contains the following items: 'My Home Page', 'Print', 'Messages' (with sub-links for 'Display messages', 'Send message', and 'Message queues'), 'Database', 'Files', 'Command', and 'Other'. Below the menu is a 'Related Links' section with links to 'Client Access', 'Operations Navigator', 'Management Central', and 'iSeries Information'. The main content area is titled 'Send message' and contains the following fields and controls: 'To users:' with a text input field and an 'Add...' button; 'To message queues:' with a text input field and an 'Add...' button; a note: 'Use either system naming (mylib/mymsgq) or simply mymsgq'; 'From:' with the value 'QUSRSYS/JJVAN'; 'Message type:' with radio buttons for 'Informational' (selected) and 'Inquiry'; and a large text area for the 'Message:' with a 'Send' button below it.

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Message Queues

IBM  iSeries

IBM 
iSeries Access for Web

jjvan
LPAR1B

My Home Page

Print

Messages

[Display messages](#)

[Send message](#)

[Message queues](#)

Database

Files

Command

Other

Related Links:

[Client Access](#)

[Operations Navigator](#)

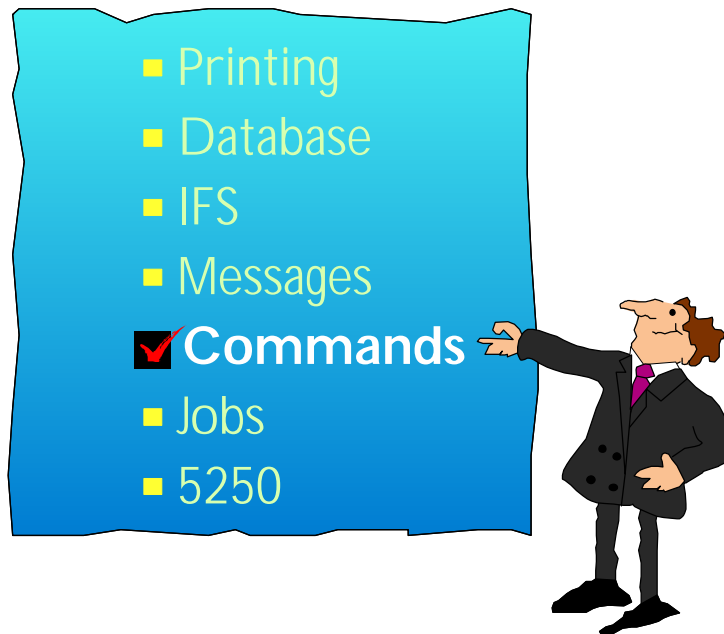
[Management Central](#)

[iSeries Information](#)

Message queues

Name	Description	Action
\$DWIGHT/FAILURELOG	DWIGHT Build Failure message queue.	Delete
\$DWIGHT/IMPORTLOG	DWIGHT Build Failure message queue.	Delete
\$DWIGHT/RCVMSGQ	Receive message queue for DWIGHT	Delete
\$DWIGHT/SUCCESSLOG	DWIGHT Build Success message queue.	Delete
\$HPTDBG/FAILURELOG	HPTDBG Build Failure message queue.	Delete
\$HPTDBG/HPTDBG		Delete
\$HPTDBG/IMPORTLOG	HPTDBG Build Failure message queue.	Delete
\$HPTDBG/RCVMSGQ	Receive message queue for HPTDBG	Delete
\$HPTDBG/SUCCESSLOG	HPTDBG Build Success message queue.	Delete
\$MINGO/FAILURELOG	MINGO Build Failure message queue.	Delete
\$MINGO/RCVMSGQ	Receive message queue for MINGO	Delete
\$MINGO/REPSTAT	REPBPR Status Message Queue	Delete
\$MINGO/SUCCESSLOG	MINGO Build Success message queue.	Delete

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Run CL Commands on iSeries

cmminer RCHAS1DD.RCHLAND.IBM.C

Command

Access batch commands on your iSeries server with iSeries Access for Web.

[My commands](#)

- List and use previously saved commands.

[Run command](#)

- Run a CL command on your iSeries server.

[Search](#)

- Search for CL commands on your iSeries server.

Additions to V5R2 version

- Commands can be saved and retrieved later
- Can search for commands by name or description
- New destinations
 - email and my folder

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Notes: Commands

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

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Command - Search

cmminer RCHAS1DD.RCH

Search for Commands

Command: ?

Library: ?

Search by:

Command name Text description ?

Navigation: [1] 2 3 4 5 6 7 8 9 10

Command	Library	Description
WRKACTJOB	QSYS2924	Work with Active Jobs
AJ	QDEVELOP50	BATS - Work with Active Jobs
WRKACTJOB	QSYS	WORK WITH ACTIVE JOBS
WRKACTJOB	QSYS2956	Work with Active Jobs
WRKACTJOB	QSYS2957	Work with Active Jobs
AJ	QDEVELOP	BATS - WORK WITH ACTIVE JOBS
WRKNETJOB	QSYS2924	Work with Network Job Entries



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Jobs

Jobs

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

Jobs

- List and manage user jobs on your iSeries server.
- View job logs for active jobs.
- View printer output for completed jobs.

Server jobs

- List and manage server jobs on your iSeries server.
- View job logs for server jobs.

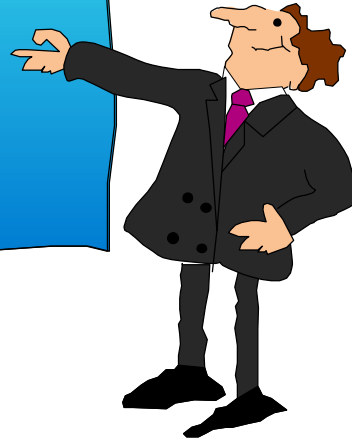
New in V5R2 edition

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My 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	Hold Delete/End Job Log Properties
QPWFSESRVSO	Waiting for dequeue	OS/400 TCP File Server	20	1	Hold Delete/End Job Log Properties
QZDASOINTT	Waiting for dequeue	OS/400 TCP Database Server	20	1	Hold Delete/End Job Log Properties
QZDASOINTT	Waiting for dequeue	OS/400 TCP Database Server	20	1	Hold Delete/End Job Log Properties
QZRCRVS	Waiting for message	OS/400 TCP Remote Command Server	20	1	Hold Delete/End Job Log Properties
QZRCRVS	Waiting for message	OS/400 TCP Remote Command Server	20	1	Hold Delete/End Job Log Properties
QZRCRVS	Running	OS/400 TCP Remote Command Server	20	1	Hold Delete/End Job Log Properties
QZSCRVS	Waiting for time interval	OS/400 TCP Central Server	20	1	Hold Delete/End Job Log Properties



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Change iSeries Password

IBM @server iSeries

Change Password - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: http://par1b2m/webaccess/WAChangePassword

IBM Instant Message Internet Lookup New&Cool

IBM @ iSeries Access for Web
jjvan

My Home Page
Print
Messages
Database
Files
Command
Other
Change password
Logs

Change Password

Old Password:

New Password:

Confirm New Password:

Change Password

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Diagnostic Traces

Trace [LPAR1B2M.RCHLAND.IBM.COM] - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: http://lpar1b2m/webaccess/WADebugInfo.jsessionid=SBEUD0QAAAAACCFDWWAN

IBM Instant Message Internet Lookup New&Cool

IBM **iSeries Access for Web**

jivan

Trace

Categories

- Information
- Diagnostic
- Warning
- Error
- IBM Toolbox for Java

Location

Trace file:

The file will default if not specified.

[Logs and traces](#)

IBM iSeries Service

IBM @server. For the next generation of e-business.

**Worldwide downloadable beta
now available at**

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

iSeries Access for Web is 'awesome!'

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Summary

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Who will benefit by iSeries Access for Web?

iSeries customers:

- Opens a new way to exploit your iSeries in your business

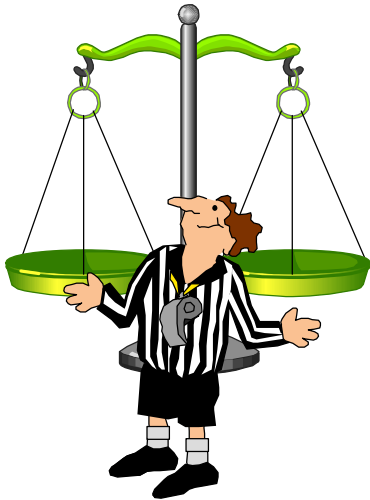
For administrators and operators:

- Provides an access method that requires 'zero administration' for network desktops
- Can modify Front Page so users only see/use what administrator sets up
- Secure access as 'Signon' still requires OS/400 user profiles

For end users:

- Offers an easy way to connect to iSeries from a variety of desktops
- Provides familiar iSeries capabilities when connected to iSeries
- Provides easy and safe Internet access via the browser SSL capabilities

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Appendix A. Positioning

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Distinct Positioning in Client Access Family

IBM @server iSeries

iSeries Access
for Web



Client Access
Express for
Windows

iSeries Access for Web **'is not'**

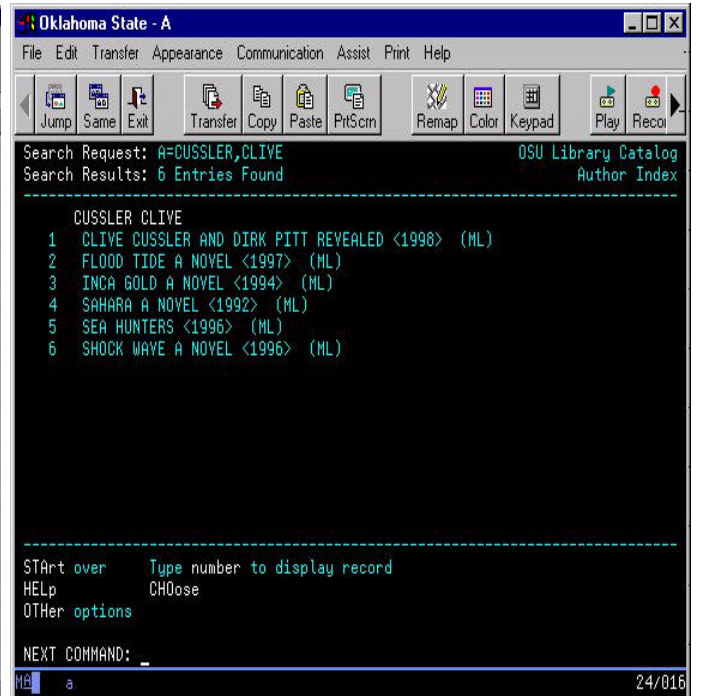
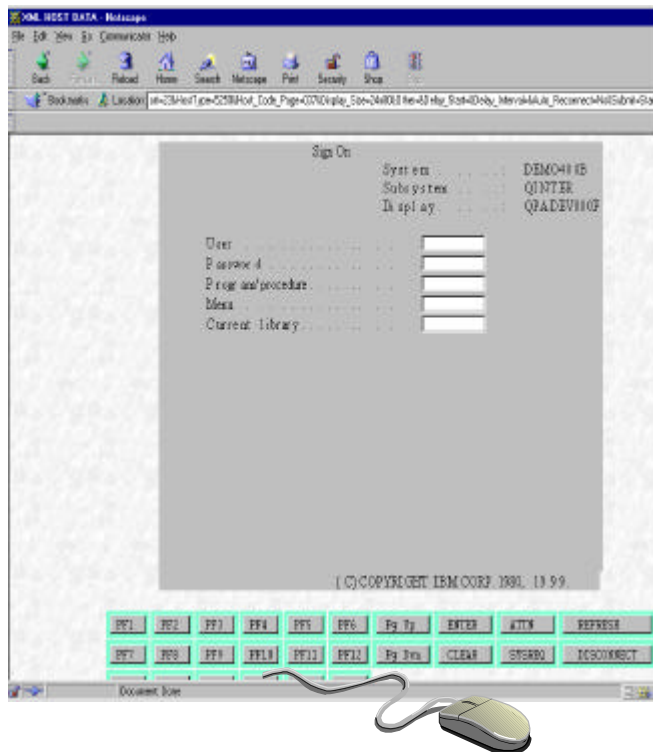
- Replacement for Client Access Express for Windows
- For PC users running Windows applications against server
 - Excel, Access, applications requiring ODBC, etc...
- For locally-attached heavy 5250 emulation users running their daily business applications
- For iSeries administrators and operators trying to run Operations Navigator functions

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IBM 5250 emulators providing browser access

iSeries Access for Web (V5R1)

IBM server iSeries Host On-Demand



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Distinct positioning in IBM browser-based offerings

iSeries Access for Web

- Any Browser with HTML 3.2 capability
 - **Servlet - downloads HTML pages**
- 5250 interface
- TCP/IP
- SSL (only requires 1 or 2 ports)
- File Serving (IFS)
- Printers, Printer output (Spool File)
- Messages
- SQL database access including GUI SQL Wizard
- English-only
- Can be Used (install from Client Access Express for Windows)
 - **AFP Viewer**
 - **IBM Toolbox for Java**
- WebSphere Host Publisher**

Host On-Demand

- Any operating system that supports Java Virtual Machine 1.1
 - **Applet - downloads Java code**
- TN3270E, TN5250, VT52, VT100, VT220 and IBM CICS® Java Gateway**
- Full Display/Print emulation**
 - Host Access Class Library
- Screen Customizer
- TCP/IP
- SSL (requires multiple ports)
- File Transfer (upload)
- Database On-Demand (download)
 - GUI interface
- File/Print Serving (IFS)
- Available in 21NLVs**
- IBM Toolbox for Java

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IBM Client Packages

IBM  server iSeries

IBM Host Access Client Package

- IBM Personal Communications for Windows
- IBM Personal Communications for OS/2
- WebSphere Host On-Demand
- IBM Screen Customizer

iSeries Client Access

- iSeries Client Access Express for Windows
- iSeries Access for Web
- WebSphere Host Publisher V3.5 (5648-E25)

WebSphere Host Integration Solution

- IBM Personal Communications (Intranet only)
- WebSphere Host On-Demand
- WebSphere Host Publisher V3.5 (5648-E25)
- IBM Communications Servers
- IBM Screen Customizer
- WebSphere Studio Professional Edition (Internet only)
- WebSphere Application Server Advanced Edition 3.5 (Internet Only)

same product

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