



IBM System i™

Session: **53MM - 470021**

iSeries Access for Web runs in a Portal

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

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iSeries Access for Web sessions/labs

- 21MC - Get to the Web Fast with iSeries Access for Web
- 23MC - iSeries Access for Web: Setup and Configuration
- 25MC- iSeries Access for Web: Run 5250 in a Browser
-  26LB - LAB: Series Access for Web: Installation and Configuration
- 36MC - Build a Home Page to Your i5/OS Using iSeries Access
- 41MC - Tips & Techniques for iSeries Access for Web
- 44LB - LAB: iSeries Access for Web
- 45MC - iSeries Access for Web: Database Access
- 51MM - iSeries Access for Web: Security Considerations
- 53MM - iSeries Access for Web Runs in a Portal
- 55ML - Programming with iSeries Access for Web
-  55LB - LAB: Series Access for Web: Installation and Configuration

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

Functional enhancements can be submitted via the FITS system. The url is:
<http://www.ibm.com/eserver/iseries/access/>
And click on link "[Request for Design Change](#)"

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Try out Access for Web for yourself!

Start your browser and connect to the following web site:

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

User ID = WUSER Password = DEMO2PWD	<p>This shows the basic look of Access for Web as we ship it. You can try various functions -- including working with printer output, creating database requests, etc. Click on the 5250 tab, sign onto the iSeries, then start an RPG application called BOATS and run it.</p>
User ID = BOATADMIN Password = DEMO2PWD	<p>This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session -- or they could have used WebFacing to run the application. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc..</p>

iSeries Access for Windows sessions:

- 32MC - iSeries Access for Windows: What's New in V5R4
- 33MI - iSeries Access Data Transfer: Tips & Techniques
- 42MK - Performance Tune iSeries Access ODBC
- 43MC - PC5250 Emulation: Everything You Need To Know
- 46ME - iSeries Access in the .NET World

iSeries Access for Linux session:

- 53ML – Creating the iSeries Linux Desktop

Stop in EXPO for a demo...

Functional enhancements can be submitted via the FITS system. The url is:

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

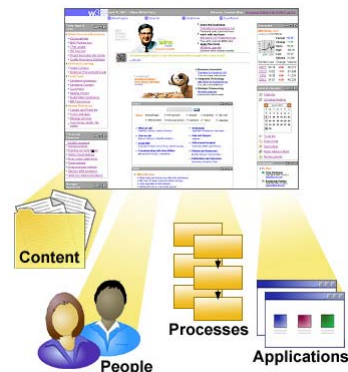
And click on link "[Request for Design Change](#)"

Why Portal

- Single point of entry for backend systems and applications
- Integrate various data sources and applications into one user experience
- Single sign on
 - May not wish to grant user access to backend systems
 - Access to data without granting access to system
- Collaborate with remote sites and users
- Provide e-business experience to customers, business partners and employees

Portal Definition

- Portal - Single Point of Personalized Interaction with Applications, Content, Processes and People
- By definition, a portal should provide
 - **Single sign-on**
 - **Common presentation**
 - **Application and information integration**
 - **Collaborative capabilities**
 - **Personalization and customization**
 - **A framework for Web Services**
 - **Extension to pervasive devices**
- Resulting in...
 - **Improved employee productivity = B2E Portal**
 - **Improved Partner relationships = B2B Portal**
 - **Increased customer loyalty = B2C Portal**



iSeries Access for Web Support

- IBM Workplace Services Express V2.5, V2.6
- WebSphere Portal for Multiplatforms V5.1.0.1, V6.0
- WebSphere Portal Express for Multiplatforms V5.0.2
- WebSphere Portal Express Plus for Multiplatforms V5.0.2

Portal Capabilities

- Manage pages
 - Deploy portlets to pages
- Users and groups
- Roles
 - Access to resources managed by roles
- Themes and skins
 - Themes affect page look and feel
 - Masthead, navigation, etc.
 - Skins affect portlet look and feel
 - Border, portlet content
- Access control
 - By users and groups
 - By roles
- Credential vault
 - Store credentials used for single signon
- Click-to-action
 - Method to exchange data between portlets based on user action
 - Similar in concept to drag-and-drop

iSeries Access for Web Portlets

- Deploy portlets to pages using Portal administration
- Access to portlets are controlled by portal access control (roles, users and groups)
- Access to backend systems are controlled by i5/OS object level security
- Portlet look and feel can be changed with themes and skins
- Single signon with credential vault
- Takes advantage of click-to-action
 - Portlet driving other portlets

Think of iSeries Access for Web portlets as a component in a portal solution

iSeries Access for Web Portlet Authentication

- Setting to specify the hostname of system for accessing i5/OS resources
 - Default is the hostname of the system where Portal is running
- Setting to specify the credential to use when accessing i5/OS resources
 - Used to authenticate to i5/OS
 - i5/OS user profile and object level security are used to authorize access to i5/OS resources
- Settings can be controlled by the Portal administrator

iSeries File List

Edit Portlet Settings

Server

Server:

Authentication

Use credential specific to this portlet window

User:

Password:

Confirm password:

Use credential set with iSeries Credentials portlet

Credential:

Use system shared credential set by administrator

Credential:

Use authenticated WebSphere credential

Authentication Options

- Use credentials specific to this portlet
 - Specify the i5/OS user profile name and password
 - Specific to this portlet window for this user
- Use credential set with iSeries Credentials portlet
 - Select the name of a credential maintained with the iSeries Credentials portlet
 - Credential contains an i5/OS user profile name and password

Use credential specific to this portlet window

User:
 Password:
 Confirm password:

Use credential set with iSeries Credentials portlet

Credential:

Use system s

Authentication Options (cont.)

- iSeries Credentials portlet lets users create and manage their own list of credentials
 - User created credentials are not available to other users
- Administrator can create system credentials using the WebSphere Portal Credentials Vault administration function
 - System credentials are available to all users
 - Each user sets their own i5/OS user profile name and password
- Manage credential values in one place

iSeries Credentials [?] [-] [X]

Credentials Add, Edit and Delete credentials

Showing 1 - 2 of 2 Page 1 of 1 Jump to page: 1

Actions	Name	Description	User	Type
	myCredentials	My credentials	stevej	User
	mySystem.myDomain.com	mySystem.myDomain.com	sJones	System

Showing 1 - 2 of 2 Page 1 of 1 Jump to page: 1

[Change i5/OS password](#)

Use credential set with iSeries Credentials portlet

Credential:

Use system s

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Authentication Options (cont.)

- WebSphere Portal Credentials Vault administration function

My Portal Administration Edit my profile ? Log out

Credential Vault

- Add a vault segment create a
- Manage vault segments view c
- Add a vault slot create a slot in**
- Manage system vault slots vie

Credential Vault

Select Vault

Vault: Default

Create a vault slot

Name: mySystem.myDomain.com

Vault resource associated with vault slot:

existing: deployment.keystore

new: mySystem.myDomain.com

Vault slot is shared:

Shared userid: Shared password: Confirm password:

Description: mySystem.myDomain.com

Set locale-specific descriptions

OK Cancel

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Authentication Options (cont.)

- Use system shared credential set by administrator
 - Created and managed by administrator using the WebSphere Portal Credentials Vault administration function
 - Common to all portal users

Use system shared credential set by administrator

Credential: deployment.keystore

Use authentication...

Credential Vault

Select Vault

Vault: Default

Create a vault slot

Name: myDomain.com

Vault resource associated with vault slot:

existing: deployment.keystore

new: myDomain.com

Vault slot is shared:

Shared userid: qsacofr Shared password: Confirm password:

Description: myDomain.com

Set locale-specific descriptions


OK Cancel

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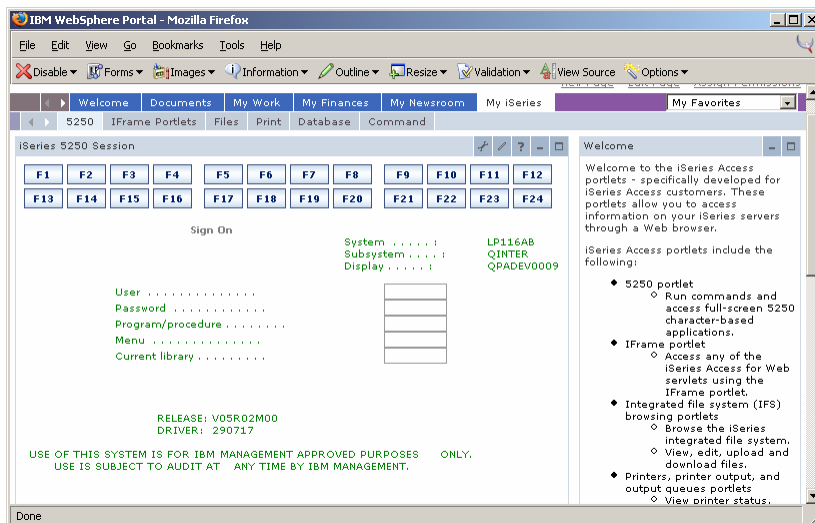
Authentication Options (cont.)

- Use authenticated WebSphere credential
 - Uses identity tokens and EIM to map the authenticated WebSphere user identity to an i5/OS user profile

 Use authenticated WebSphere credential

- Requires:
 - EIM domain configuration on each i5/OS where resources will be accessed
 - All in the same EIM domain
 - EIM Identity Token Connector installed
 - J2C connection factories configured with JNDI names eis/iwa_IdentityToken and eis/IdentityToken
 - EIM identifier target associations for each i5/OS that will be accessed

Portlets: 5250



IBM WebSphere Portal - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Disable Forms Images Information Outline Resize Validation View Source Options

Welcome Documents My Work My Finances My Newsroom My iSeries My Favorites

5250 IFrame Portlets Files Print Database Command

iSeries 5250 Session

Sign On

User
 Password
 Program/procedure
 Menu
 Current library

System LP116AB
 Subsystem QINTER
 Display QPADEV0009

RELEASE: V05R02M00
 DRIVER: 290717

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

Done

Welcome

Welcome to the iSeries Access portlets - specifically developed for iSeries Access customers. These portlets allow you to access information on your iSeries servers through a Web browser.

iSeries Access portlets include the following:

- 5250 portlet
 - Run commands and access full-screen 5250 character-based applications.
- IFrame portlet
 - Access any of the iSeries Access for Web servlets using the IFrame portlet.
- Integrated file system (IFS) browsing portlets
 - Browse the iSeries integrated file system.
 - View, edit, upload and download files.
- Printers, printer output, and output queues portlets
 - View printer status.

Portlets: Edit 5250 Settings

iSeries 5250 Session

Edit 5250 Session Settings

Server

Server:

Port:

Code page: ▼

Display HTML data in fields

Automatically start session

Workstation ID

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

Bypass signon

Enable bypass signon

Use credential specific to this portlet window

User:

Password:

Confirm password:

Use credential set with iSeries Credentials portlet

Credential: ▼

Portlets: iFrame

- Inline frames – iFrame
 - Each iFrame window displays content from a URL
 - Good way to leverage iSeries Access for Web servlets

Portlets: iFrame

The screenshot shows a browser window titled "IBM WebSphere Portal - Mozilla Firefox". The main content area displays a table titled "Printer Output for smshao". Below the table are two iFrame portlets: "Run SQL" and "Directory Contents".

File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	Action	User	Job Name	Job Numl
QPJOBLOG	QZDASOINIT	3/31/04 9:34 AM	2	1	Ready	Work with View View as View PDF	SMASHAO	QPRTJOB	8773
QPJOBLOG	QZDASOINIT	3/31/04	2	1	Ready	Work with	SMASHAO	QPRTJOB	8773

The "Run SQL" portlet contains a "Menu" link and the text "Run SQL" and "SQL Statement". The "Directory Contents" portlet contains a "Menu" link, "Directory Contents /", and a "Copy Files to Server" link.

Portlets: Edit iFrame Settings

The screenshot shows the "Edit iFrame Settings" dialog box in the IBM WebSphere Portal. The dialog is titled "Task" and lists various tasks for the "iSeries Access for Web URL interface". The "Create SQL Request" task is selected.

Task

iSeries Access for Web URL interface:

- Create SQL Request [IWADBRunSQL]
- 5250
 - List Active Sessions [IWAActiveSessions]
 - List Configured Sessions [IWACConfiguredSessions]
 - List Macros [IWAMyMacros]
 - List Shared Sessions [IWAShareS250List]
 - List View-only Sessions [IWAViewList]
 - Start Configured Session [IWA5250]
 - Start Default Session [IWA5250]
 - Start Session [IWAStartSession]
- Command
 - List Saved Commands [IWACCommandList]
 - Prompt Command [IWACCommandPrompter]
 - Run Command [IWACCommand]
 - Search for Commands [IWACCommandSearch]
- Customize
 - List Preference Categories [IWACustomize]
- Database
 - Create Copy Data Request [IWADBUpload]
 - Create SQL Request [IWADBRunSQL]
 - Create SQL Request using Wizard [IWADBSQLWizard]

Portlets: File

- File viewer portlet
 - Display file content from IFS
 - Html, text, binary files
 - Good for displaying static information to users
- File list portlet
 - List and navigate IFS
 - Send file path to other file cooperative portlets
- File list – viewer
 - Display content of the file sent from file list portlet
- File list – editor
 - Edit text file sent from file list portlet
- Zip file portlet
 - Create and work with zip files in Integrated File System

Portlets: File

The screenshot displays the IBM WebSphere Portal interface within a Mozilla Firefox browser window. The main content area is titled "iSeries File List" and shows a directory listing for the path "/portal/publish". The listing includes columns for Name, Size (bytes), Type, and Modified date. Below the listing is a "Copy File to Server" section with a file input field and a "Browse..." button. The right-hand side of the page contains two portlets: "iSeries File List - Viewer" and "iSeries File List - Editor", both with instructions to use the file list or other cooperative portlets to select a file for viewing or editing.

Name	Size (bytes)	Type	Modified
aaw.exe	892753	File	4/6/04 12:59:13 PM
companynews.html	188	File	4/8/04 12:27:52 PM
fixed.html	1191	File	10/21/03 10:50:41 AM
menu.html	3602	File	3/5/04 3:04:41 PM
qcusted.xls	18432	File	10/21/03 11:11:43 AM
test.html	6520	File	3/8/04 1:00:10 PM
test.pdf	19024	File	10/21/03 2:33:58 PM

Portlets: Print

- Printer output portlet
 - List printer output for a user or output queue
 - Output queue may be set by printers or output queues portlet
 - Manage printer output (hold/release, print next, delete)
 - Send printer output identifier to printer output viewer portlet
- Printer output – viewer portlet
 - Display printer output sent from printer output portlet as PDF
- Printers portlet
 - List printers on iSeries server
 - Send printer queue name to printer output portlet
- Output queues portlet
 - List output queues on iSeries server
 - Send output queue name to printer output portlet

Portlets: Print

The screenshot displays the IBM WebSphere Portal interface in Mozilla Firefox. The main content area is titled "iSeries Printer Output" and contains a "Printer Output" portlet. This portlet has a "Refresh" button and a table showing printer output jobs. The table has columns for Actions, File Name, Status, User Data, User, Job Name, Job Number, File Number, Creation Date/Time, and Pages Per Cop. Below this is an "iSeries Printers" portlet with a "Refresh" button and a table listing printers, their status, descriptions, and output queues. A "Printer Output - Viewer" portlet is also visible on the right side of the page.

Actions	File Name	Status	User Data	User	Job Name	Job Number	File Number	Creation Date/Time	Pages Per Cop
[Icons]	QPJOBLOG	*READY	QZDASOINIT	SMSHAO	QPRTJOB	877306	1	3/31/04 9:34 AM	
[Icons]	QPJOBLOG	*READY	QZDASOINIT	SMSHAO	QPRTJOB	877306	2	3/31/04 9:34 AM	
[Icons]	QPJOBLOG	*READY	QZDASOINIT	SMSHAO	QPRTJOB	877306	3	3/31/04 9:34 AM	
[Icons]	QPJOBLOG	*READY	QZDASOINIT	SMSHAO	QPRTJOB	877306	4	4/6/04 9:51 AM	
[Icons]	QPRINT	*READY		SMSHAO	QIWADPFSTR	886069	1	4/6/04 1:02 PM	

Printer	Status	Description	Output Queue	Actions
#JRHPEF	Unavailable	PDF Printer to test BiDi enablement	QUSRSYS/#JRHPEF	[Icons]
BIDIPDF	Unavailable	???????	QUSRSYS/BIDIPDF	[Icons]

Portlets: Database

- Database table portlet
 - List database table information
 - Optionally
 - Add record
 - Update record
 - Delete record
- Dynamic SQL portlet
 - Perform dynamic SQL request
- SQL query portlet
 - Perform pre-configured SQL request
 - Parameter marker support
 - Create form to prompt for user input
- SQL request portlet
 - Create new request
 - List requests
 - Send to SQL request viewer portlet to view results
- SQL request viewer portlet
 - Display query results

Portlets: Database

The screenshot shows a web browser window titled "IBM WebSphere Portal - Mozilla Firefox". The main content area displays a database table portlet with the following table:

Actions	CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
	938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
	839283	Jones	B D	216 NW 135 St Clay	NY		13041	400	1	100.00	0.00
	392859	Vine	S S	PO Box 79	Broton	VT	5046	700	1	439.00	0.00
	938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	9999	2	3987.50	33.50
	397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00

Below the table are two portlets:

- iSeries Dynamic SQL**: Contains a text input field for "SQL statements:" and a "Run SQL" button.
- iSeries SQL Query**: Contains a "Database Query" section with a text input field for "Minimum balance: 0" and a "Run Query" button.

The status bar at the bottom of the browser window shows "Done".

Portlets: Command

- Command portlet
 - Execute batch commands
 - Retrieve previous command (similar to F9)

Portlets: Command

WebSphere Portal

Welcome My Work My Finances My Newsroom My iSeries

5250 IFrame Portlets Files Print Database Command

iSeries Command

Library FRED already exists. [View details](#)Command: **Run Command**

Previous commands:

[crtlib fred](#)

Portlets: Other

- Credentials portlet
 - Manage credential vault entries
- Data store portlet
 - Manage database requests
- Related links portlet
 - List of product related links

Portlets: Other

The screenshot displays the IBM System i WebSphere Portal interface. At the top, there is a navigation bar with links for 'Welcome', 'My Work', 'My Finances', 'My Newroom', 'My iSeries', and 'stymie'. Below this, the 'iSeries Credentials' portlet is visible, featuring a table of credentials and a 'Change i5/OS password' link. To the right, the 'iSeries Related Links' portlet lists various resources like 'IBM eServer', 'Series Servers', and 'Series Support'. Below these, the 'iSeries Access for Web Data Store' portlet shows a table of database access requests.

Actions	Name	Description	User	Type
	myCredentials	My credentials	stevej	User
	mySystem.myDomain.com	mySystem.myDomain.com	sjones	System

Name	Type	Access	Actions
slezyzyc uwierzytelnienia	SQL request share	zadzania	
atc	SQL request share	cgalvez2	
Customer Information	SQL request	jhansen	
customers	SQL request	cgalvez2	
demande	SQL request share	parametres	
prompt	SQL request	vpsadmin	

Summary

- Think of iSeries Access for Web portlets as web components
 - Pick and choose the portlets for the functionality you need
 - Deploy them to your pages
 - Configure them according to your requirements
 - Administer them using Portal administration tools
 - Use the portlets as part of your portal solution

Questions?

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