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iSeries Access for Web: What's New?

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http://www.ibm.com/servers/eserver/iseries/access/web/

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iSeries Access for Web

- **A new offering in the iSeries Access Family (5722-XW1)**

- **V5R1 iSeries Access for Web (5722-XH1)**
  - Available 9/28/2001.
  - Supports WebSphere Application Server 3.5.
  - Host Publisher v3.5 bundled.

- **V5R2 iSeries Access for Web (5722-XH2)**
  - Setup information available in our V5R2 documentation
    - PDF format available for download
    - http://www.ibm.com/servers/eserver/iseries/access/web/
  - Includes support for...
    - WebSphere Application Server 4.0 Advanced Edition and Advanced Single Server Edition
    - ASF Tomcat Application Server
    - Accessing Jobs
    - Setting up eMail
    - Personal Folder for storing information
  - Host Publisher v4.0 bundled.

iSeries Access for Web *(continued)*

- **PTF SI06967 (Service Pack 4)**
  - Available now
  - Adds support for
    - WebSphere v5.0 - Express for iSeries
    - Websphere v5.0 ("Base Edition")
    - Homepage customization refresh
    - Misc. fixes
  - CL commands & documentation
    - CL commands in library QIWA2 were not updated with the PTF
    - Documentation was not updated with the PTF
  - QShell scripts provided
    - /QIBM/ProdData/Access/Web2/install
    - cfgaccweb2, straccweb2, endaccweb2, rmvaccweb2
  - New documentation
    - Specific documentation for WebSphere v5.0 - Express for iSeries and WebSphere v5.0
    - Available on iSeries Access for Web website
      - http://www.ibm.com/servers/eserver/iseries/access/web/
  - Homepage customization
    - If using custom homepages, you no longer have to rename files/restart to reload the HTML source

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iSeries server installation

- **V5R1 iSeries Access for Web**
  - OS/400 versions
    - **V4R5 & V5R1**
  - 5722-XH1 licensed program product
  - QIWA library
  - IFS directories
    - **/QIBM/ProdData/Access/Web/...**
    - **/QIBM/UserData/Access/Web/...**
  - CL commands
    - **CFGACCWEB**
    - **STRACCWEB**
    - **ENDACCWEB**
    - **RMVACCWEB**

- **V5R2 iSeries Access for Web**
  - OS/400 version
    - **V5R1 & V5R2**
  - 5722-XH2 licensed program product
  - QIWA2 library
  - IFS directories
    - **/QIBM/ProdData/Access/Web2/...**
    - **/QIBM/UserData/Access/Web2/...**
  - CL commands
    - **CFGACCWEB2**
    - **STRACCWEB2**
    - **ENDACCWEB2**
    - **RMVACCWEB2**

iSeries server installation *(continued)*

V5R1 iSeries Access for Web

- Web application server support
  - WebSphere Advanced Edtion 3.5.3
  - WebSphere Standard Edition 3.5.3

V5R2 iSeries Access for Web

- Web application server support
  - WebSphere v5.0 - Express for iSeries (via PTF)
  - Express v5.0 (via PTF)
  - WebSphere Advanced Edition 4.0.3
  - WebSphere Advanced Single Server Ed. 4.0.3
  - ASF Tomcat
- QShell command scripts (via PTF)
  - Used to configure for the 2 WAS v5.0 web application servers
  - /QIBM/ProdData/Access/Web2/install
    - cfgaccweb2
    - straccweb2
    - endaccweb2
    - rmvaccweb2

Web application server environment

V5R1 iSeries Access for Web

- Can only be configured for 1 (one) edition of WebSphere.
  - WebSphere 3.5 does not allow you to install both the Advanced and Standard Editions on the iSeries server at the same time.
- Only supports configuring 1 (one) WebSphere instance.

V5R2 iSeries Access for Web

- Coexists with V5R1 iSeries Access for Web.
  - V5R1 and V5R2 iSeries Access for Web can be installed on the same iSeries server and run concurrently.
- Can be configured and run in more than one WebSphere instance concurrently.
- Can be configured for more than one web application server version and run concurrently.
  - WAS v5.0 - Express for iSeries, WAS v5.0, WAS Advanced Edition 4.0, WAS Single Server 4.0, and ASF Tomcat can all be installed, configured, and running on the iSeries server concurrently.

Host Publisher V4.0

- **An application modernization tool for host applications (RPG, COBOL, system screens, etc) to run in a browser**
  - No change to your source code, in fact you don't even need source code
  - Can modernize selected paths through application, don't need to do whole application
  - Can run multiple host applications from one web view

- **Supports WebSphere 4.0**
  - Installs to one edition of WebSphere installed on the iSeries server.
  - Configures for one instance of WebSphere on the iSeries server.

- **Installation and Setup**
  - CD-ROM of Host Publisher v4.0 (server code).
  - CD-ROM of Host Publisher Studio v4.0 (Windows workstation code).
  - Planning and Installation Guide on server code CD-ROM in PDF and HTML formats.

Mail

- **Mail Result as Attachment**
  - requires an SMTP server
    - configure SMTP server in "Mail" customization settings
  - requires user email address
    - either set up in policy by administrator or
    - set up in preferences by user
  - used by PDF view in print, database, command, file...
    - asynchronous execution
      - good for long running queries, commands, etc.
      - result sent to recipient
      - status sent to sender
  - mail option is not available unless SMTP server and email address for the user are set

Personal Folder

- **What is it?**
  - container that resides on the web server
  - one folder for each user
  - can only be accessed by owner

- **What is it used for?**
  - receive asynchronous results from long running tasks
    - for example, instead of waiting for a long running query to complete and tying up the browser, send the result to personal folder when it completes
  - send results to another user
    - for example, run a query and have the result be placed in another user's folder

- **Access via "My Folder" link**

Personal Folder *(continued)*

- **Manage folder**
  - open (view/download depending on content type)
  - delete
  - rename
  - mail content to another user

- **New item notification**
  - policy/preference to set up email notification of new items
    - requires email support to be setup
    - email address to notify may be different than user's email address

Mail and Personal Folder

- **Reasons to use mail or personal folder**
  - long running request
    - actions performed asynchronously, so the browser is not tied up
  - performing request for someone else
  - distributing result to a group of users
  - mechanism for workflow

- **Reasons to use mail**
  - user is not an iSeries user
  - user does not have access to a web browser

- **Reasons to use personal folder**
  - avoid large attachments
    - large query result = large email attachment
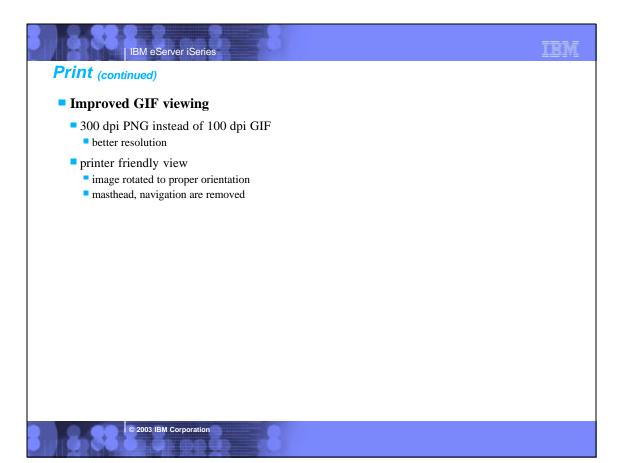 - preview result before sending

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Print

- **PDF support**
  - Two methods of generating PDF
    - IBM Infoprint Server (5722-IP1)
    - built in PDF transform (iText)
  - View printer output as PDF
    - requires PDF viewer such as Adobe Acrobat Reader
    - PDF generated by Infoprint Server has higher functionality
      - iText generated PDF is image only
  - Mail as attachment
    - send PDF result to other another user or user's own email address
    - status sent to own email address
  - Output to personal folder
    - either in the user's own folder or
    - place in other user's folder
    - good for large output files
      - asynchronous conversion - does not wait for conversion to complete

Print *(continued)*

- **Improved GIF viewing**
  - 300 dpi PNG instead of 100 dpi GIF
    - better resolution
  - printer friendly view
    - image rotated to proper orientation
    - masthead, navigation are removed

Jobs

- **User Jobs**
  - Jobs submitted by the user
  - User preference setting to filter job list
    - active jobs
    - active and waiting to run
    - waiting to run
    - completed
    - all jobs

- **Server Jobs**
  - Jobs working on behalf of the user

- **Manage Jobs and Server Jobs**
  - hold and release
  - delete/end
  - view job job
  - view job properties

Database

- **New file types**
  - PDF
    - download only
    - configurable
      - page size
      - orientation
      - margins
      - table header and footer
      - column heading
      - table style
      - alignment...
  - XML
    - download
    - upload
    - interchange data with other XML enabled applications

Database *(continued)*

- **New destinations**
  - mail
    - mail result to another user or to self
    - receive query status in email
  - personal folder
    - place result in another user's folder or in user's own folder
    - receive query status in user's own folder

Files

- **New actions**
  - copy file
  - rename file and directory
  - delete file and directory
  - mail file as attachment
  - create directory

Command

- **Save commands**
  - commands can be saved and retrieved later

- **Search for commands**
  - by command name
    - example: crt*, *dev*, *prt
  - by command description
    - example: work with active job
    - results ranked by hits

- **New destinations**
  - mail as attachment
    - receive status and result in email
  - personal folder
    - receive status and result in own personal folder

Other

- **Software product list**
  - accessed from "Other"->"About", and scroll to bottom of the page
  - displays the list of installed software products
    - view product properties
    - list software fixes for the product and view
      - software fix properties,
      - symptoms,
      - cover letter and more

- **System values**
  - accessed from "Other"->"About", and scroll to bottom of the page
  - displays system values

5250

- **New 5250 interface**
  - replaces XML Legacy Gateway as the default 5250 interface
    - part of base iSeries Access for Web
  - XML Legacy Gateway still available as part of Host Publisher
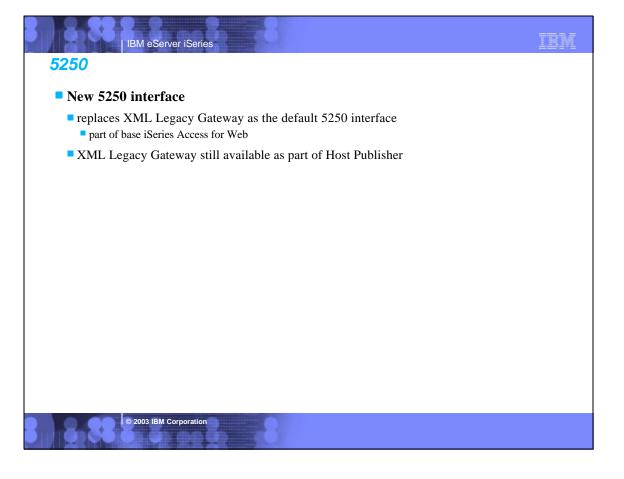
5250 Functionality

- **Two customizable views**
  - web view
    - look and feel similar to web page
  - traditional view
    - look and feel closer to an emulator
  - both views fully customizable
    - color mapping
    - function key pad
    - ...

- **Cursor positioning**
  - ability to place cursor at non-input fields for cursor sensitive applications

- **Customizable keypads**
  - 3 keypads (top, side and bottom)
  - each keypad is fully customizable
    - macros can be assigned to keys

5250 Functionality

- **Workstation ID**
  - Similar to PC5250
    - specify unique ID
    - ID based on user profile
    - wild card to avoid collision

- **132 column support**
  - Sessions are 132 column sessions

- **Macros**
  - record, playback

- **Session synchronization**
  - browser may be out of sync with actual session (browser back/forward button for example)
  - detect session out of sync and discard actions and display current session screen

5250 Functionality

- **Keyboard support**
  - requires JavaScript capable browser
  - Enter key supported by most browsers
  - Function keys, PgUp and PgDn supported by Internet Explorer only

- **Active Session**
  - list of all active sessions for a user
  - reconnect to active session
    - session remains active until it is stopped or timed out
    - shutting down the browser does not stop the session

Performance and Resource Utilization

- **List processing**
  - improvements of 10x in some cases

- **Faster processing in general**

- **Smart caching**
  - significantly improved memory utilization

- **Requires Service Pack 3 - SI05427**
  - Be sure to follow all the special instructions!!!

Summary

- **Reasons to use V5R2 iSeries Access for Web**
  - WAS v5.0 - Express for iSeries, WAS v5.0, WAS 4.0, and ASF Tomcat
  - Mail and personal folder
  - PDF
  - Jobs
  - New 5250 interface
  - Significant performance and resource usage improvements
  - Enhancements to existing functions
    - Command
    - File
    - Print
    - ...

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iSeries & WebSphere Resources & Deliverables

iSeries Information Center
http://www.ibm.com/iseries/infocenter

iSeries site
www.iseries.ibm.com/

iSeries WebSphere Application Server
http://www-1.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/

PartnerWorld for Developers, iSeries & WebSphere
http://www.iseries.ibm.com/developer/websphere/

IBM eServer Solutions
http://www-1.ibm.com/servers/eserver/iseries/solutions/

iSeries e-business Solutions
http://www-1.ibm.com/servers/eserver/iseries/ebusiness/

iSeries B2B Solutions
http://www-1.ibm.com/servers/eserver/iseries/btob/

Connect for iSeries
http://www-1.ibm.com/servers/eserver/iseries/btob/connect/v11high.html

WebSphere Commerce Suite for iSeries
http://www-1.ibm.com/servers/eserver/iseries/ebusiness/wcs51.html

iSeries and e-commerce
http://www-1.ibm.com/servers/eserver/iseries/ebusiness/ecommerce.htm

iSeries HTTP Server
http://www-1.ibm.com/servers/eserver/iseries/software/http/index.html

WebSphere Development Studio for iSeries
http://www-3.ibm.com/software/ad/wds400/

iSeries and WebSphere References
http://www.as400.ibm.com/developer/java/solutions/jjem.html
http://www2.software.ibm.com/casestudies/swcsweb.nsf/platform

iSeries Solution Finder
http://www.iseries.ibm.com/btobpartner/

iSeries & Domino
http://www-1.ibm.com/servers/eserver/iseries/domino/

Dedicated Server for Domino
http://www-1.ibm.com/servers/eserver/iseries/domino/dsd.htm

Workload Estimator for iSeries, WAS, WCS & Domino, HTTP Server, Java, etc.
http://as400service.ibm.com/estimator/

iSeries Custom Technology Center
http://www-1.ibm.com/servers/eserver/iseries/service/ctc/

iSeries Technical Support
http://as400service.ibm.com/

iSeries Technical Studio
http://www.as400.ibm.com/tstudio/

1st Install for iSeries & WebSphere Application Server
http://www.iseries.ibm.com/developer/websphere/assistance.html

iSeries ToolsNet (Tools & Middleware)
http://www.iseries.ibm.com/developer/tools/

iSeries & Services Network
http://as400service.ibm.com/supporthome.nsf/document/19251245

iSeries e-business Handbook (SG24-5694-01)
http://www.redbooks.ibm.com/abstracts/sg245694.html

iSeries & WebSphere Resources & Deliverables

WebSphere Commerce Suite With Back-End Order Mgmt.
http://ibm.com/redbooks

iSeries Technology Center
http://www.iseries.ibm.com/service/itc/ebiz.htm

iSeries University
http://www-3.ibm.com/services/learning/community/as400/

WebSphere Application Server Overview
http://www-4.ibm.com/software/webservers/appserv/

iSeries & WebSphere Documentation

WebSphere Commerce Suite
www-4.ibm.com/software/webservers/commerce/

WebSphere Payment Manager
www-4.ibm.com/software/webservers/paymgr/

MQSeries
www.ibm.com/software/ts/mqseries
IBM Redbooks
http://www.redbooks.ibm.com/

iSeries Nation
http://www-1.ibm.com/servers/eserver/iseries/announce/form.html

Redbooks & Red Pieces	Form Numbers/Web Sites
Building iSeries Applications for WebSphere Advanced Edition	SG24-5691
Building Java Applications for the iSeries with VisualAge for Java	SG24-6245
iSeries Access for Web V5R2 & WebSphere Host Publisher V4.0	SG24-6804
Integrating WCS with Domino Back-End Applications	
· http://ibm.com/redbooks (search for REDP0141)	

Java & WebSphere Performance on iSeries
· **http://publib-b.boulder.ibm.com/Redbooks.nsf/RedpieceAbstracts/sg246256.html?Open**
iSeries Application Development Directions white paper is now available
· **http://www.iseries.ibm.com/developer/tools/documents/addir/index.html**
Connect for iSeries with WebSphere Commerce Suite Red Paper
· **http://www.redbooks.ibm.com/redpapers/pdfs/redp0127.pdf**

Tools for Application Reface and Redesign
· **http://www.as400.ibm.com/developer/comm/pidtechpapers.html?Tools**

Introduction to Enterprise JavaBeans for AS/400	SG24-5192-00
Web enabling AS/400 Applications with WebSphere Studio	SG24-5634-00
Building AS/400 Applications with WebSphere Standard Edition 2.0	SG24-5635-00
Building AS/400 C/S Apps with Java	SG24-2152-02
Building AS/400 Internet-based applications with Java	SG24-5337-00

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IBM	WebSphere	

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