

Notes: What is iSeries Access for Web?

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 broswer requirements and would work with almost any browser on any platform.

Server-based

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

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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.

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Fully customizable

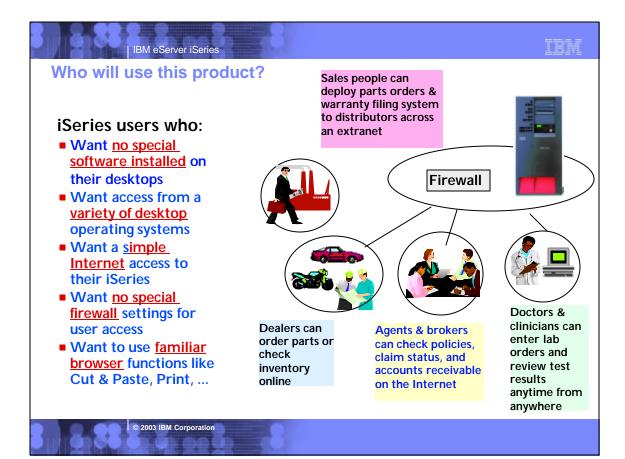
 Access to iSeries Access for Web functionality can be restricted for users and groups of users. iSeries Access for Web is fully customizable.

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):

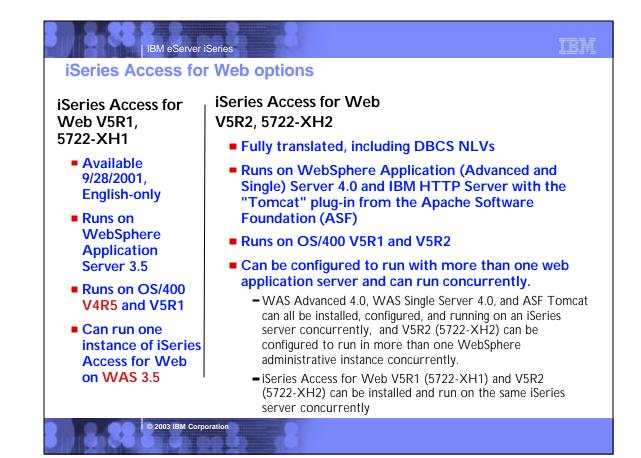
- HTML (text/html) binary (application/octet-stream)
- text (text/plain)
- MS Excel (application/vnd.ms-excel) Lotus 1-2-3 (application/vnd.lotus-1-2-3)
- GIF images (image/gif)
- TIFF images (image/tiff)
- HP PCL (application/vnd.hp-PCL)
- AFP (application/vnd.ibm.modcap)

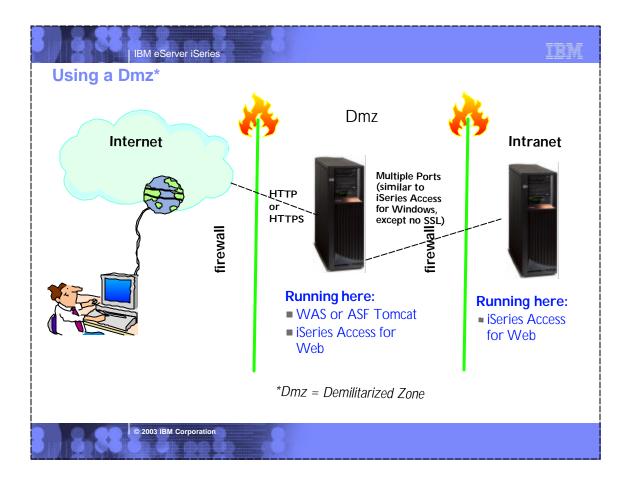
In most cases, the request implies the resulting data type. iSeries Access for Web serviets retrieve the data, format the data in appropriate formats, tags it with the appropriate mime type, and sends the response back to the client

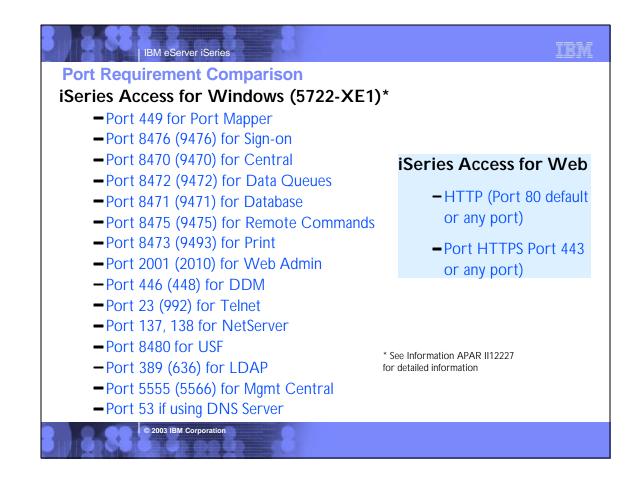


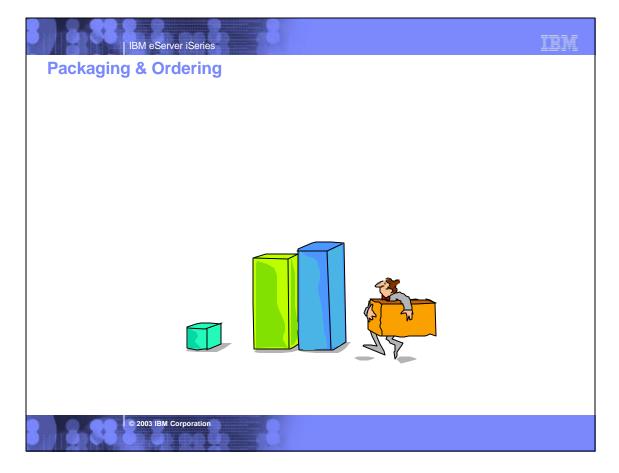
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Notes: Who will use iSeries Access for Web?	
The Internet movement has taken over and businesses are quickly moving to embrace these technologies through e-business!	
Since almost all desktop operating systems come with web browsers, users want an easy way to work with their business critical OS/400 inform resources through this simple user interface that has been designed to be Internet friendly. Users also are looking for hassle-free access through 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 m built around OS/400 user profiles. Additionally, they want to customize a user's view of the iSeries servers, so those not familiar with OS/400 o 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 br provides an application user-centric, web-based portal view of iSeries or AS/400 application and information.	owser and
The iSeries Access Family' Product ID is 5722-XW1. It is orderable for OS/400 V5R1 and OS/400 V5R2. The iSeries Access for We offering - included in the iSeries Access Family Product has twoa Product IDs • 5722-XH2 is the latest offering and ships with the V5R2 offering, but also work on OS/400 V5R1. This version runs on WAS 4.0 or later, and Tomcat.	
 5722-XH1 was the first offering and ships with the V5R1 offering. It works with OS/400 V4R5 and V5R1 and is part of the Family offering. The late-add for V5R1 and was made generally available September 28, 2001. It is provided on a separate iseries CD (ie, it isnot be on the locked version runs on WAS 3.5 only. 	nis was a media). This
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 URI 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 HTT 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 as server resources from any supported web browser. Industry standard protocols, HTTP and HTTPS, are used by iSeries Access for Web. Since proprietary TCP/IP ports or protocols, considerations surrounding firewall usage are easily manageable.	P server; nd access
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Packaging and Ordering

IBM eServer iSeries

V5R2 5722-XW1 iSeries Access Family	V5R1 5722-XW1 iSeries Client Access Family
5722-XE1, V5R2 iSeries Access for Windows	5722-XE1, V5R1 AS/400 Client Access Express for Windows
 5722-XH2, V5R2 iSeries Access for Web 	 5722-XH1, V5R1 iSeries Access for Web
 5724-B81, V4.0 WebSphere Host Publisher 	 5648-E25, V3.5 WebSphere Host Publisher
	Customers with Software Subscription can get V5R2 clients by ordering no-charge Feature No. 2645 of Product No. 5722-XW1

IBM eServer iSeries

Notes: Language Enablement

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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.

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 When you specific 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 endvailables in the following

- NLVs:
- French
- Italian MNCS
- Swedish
- Hebrew
- German MNCS
- Finnish
- Japan
- Tradational Chinese
- Romanian
- Brazil Portuguese
- Drazil PC
 Czech
- German
- Russian
- Polish
- Spanish
- Turkish

- Slovenian
- Danish
- Norway
- Portuguese
- Simplified Chinese
- Arabic
- Belgium Dutch
 - Slovakian
 - Dutch
 - Croatian
 - French Belgium
 - Italian
 - GreekKorean
 - French Canadian
 - Hungarian
 - i iuriyai ldH

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<section-header><section-header>Concurrent Usage Wust have iSeries Access Family Licensed Program product (5769-XW1 or 5722-XW1) installed on Server **- All products do license checking -** Access 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

Server Sof	tware Requirements for Access for Web	o (5722-)	(H2 ,
V5R2)	If you plan to use ASF Tomcat web application se	rver	
	requires an iSeries with 70 cpw & 256 MB memo	ry	
Product No	Product Name	Option	\$
5722-SS1 5722-SS1	OS/400 V5R1 or V5R2 OS/400 Extended Base Directory Support	Base 3	
5722-SS1	OS/400 AFP Compatibility Fonts	8	w/HW
5722-SS1	OS/400 Host Servers	12	
5722-SS1	OS/400 QShell Interpreter	30	
5722-SS1	OS/400 Digital Certificate Manager (optional, if you plan to use SSL)	34	
5722-XW1	iSeries Access Family	Base	\$
	iSeries Access Enablement Support	1	
	Be sure to get Service Pack 3 - SI05427		
5722-JV1	Java Developer Kit	Base	N/C
5722-JV1 5722-JV1	Java Developer Kit Version 1.2	3 5	N/C N/C
5722-JC1	Java Developer Kit Version 1.3 (needed only for Arabic language users) Toolbox for Java	Base	N/C
5722-TC1	TCP/IP Connectivity Utilities for iSeries	Base	N/C
5722-TC1	IBM HTTP Server for iSeries	Base	N/C
	 The ASF Tomcat web application server is part of IBM HTP Server for iSeries. ASF Tomcat PTFs are delivered within the IBM HTP Server for iSeries Group PTFs. These PTFs contain all the fixes required to bring the HTTP Server up to a specific fix level. Select PTFs from the HTTP Server Web site (www.ibm.com/eserver/iseries/software/http) and follow the links appropriate for your version of OS/400 	Dase	
5722-AC2 5722-AC3	Cryptographic Access Provider (56-bit) (if you plan to use SSL) Cryptographic Access Provider (128-bit)(if you plan to use SSL)		N/C N/C
5722-IP1	IBM Infoprint Server (optional)	Base	\$

5R2) I	f you plan to use WebSphere Application Server		-
Product Number	Product Name	Option	\$
5722-SS1	OS/400 V5R1 or V5R2	Base	
5722-SS1	OS/400 Extended Base Directory Support	3	
5722-SS1	OS/400 AFP Compatibility Fonts	8	w/HW
5722-SS1	OS/400 Host Servers	12	
5722-SS1	OS/400 QShell Interpreter	30	
5722-SS1	OS/400 Digital Certificate Manager (if you plan to use SSL)	34	
5722-XW1	iSeries Access Family	Base	\$
	iSeries Access Enablement Support	1	
	Be sure to get Service Pack 3 - SI05427		
5722-JV1	Java Developer Kit	Base	N/C
5722-JV1	Java Developer Kit Version 1.2	3	N/C
5722-JV1 5722-JC1	Java Developer Kit Version 1.3 Toolbox for Java	5	N/C
		Base	
5722-TC1	TCP/IP Connectivity Utilities for iSeries	Base	N/C
5722-DG1	IBM HTTP Server for iSeries	Base	N/C
5733-WS4	WebSphere Application Server Single Server V4.0.3		\$
5733-WA4	WebSphere Application Server Advanced Server V4.0.3		\$
	ComingWebSphere Express V5.0		\$
	Use IBM Workload Estimator for iSeries for recommended minimum		
	requirements for your server hardware at www.ibm.com/eserver/iseries/support/servlet/EstimatorServlet		
5722-AC2	Cryptographic Access Provider (56-bit) (if you plan to use SSL)		N/C
5722-AC3	Cryptographic Access Provider (128-bit)(if you plan to use SSL)	-	N/C
5722-IP1	IBM Infoprint Server (optional)	Base	\$

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Browser Requirements for Access for Web	
Netscape	
Version 4.7 (AIX (R), Linux)	
Version 6.2 (Windows)	
Microsoft Internet Explorer	
Version 6.0 (Windows)	
Opera	
Version 5.0 (Linux)	
Version 6.0 (Windows)	
Other browsers (for these and other platforms) that support the current HTTP and HTML specifications should work but have not been tested with iSeries Access for Web.	
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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.

<u>Please note the following HARDWARE Prerequisites for WAS:</u> 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 2002
 Model AS/400e Server 270 with processor feature 2252
- 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.

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Run the workload estimator at:

http://www-912.ibm.com/supporthome.nsf/document/23393024 • The workload estimator. See http://as400service.ibm.com/servlet

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/Ite workload estimator: see http://s4dosende.init.com/serviet /EstimatorServiet. The workload estimators 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/iseries/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 provides
- some examples for specific WebSphere configurations. • The minimum recommended system requirements for WebSphere. See http://www-1.ibm.com/servers/eserver/iseries/software
- /websphere/wsappserver/docs/as400v35/docs/instprrq.html • The performance tools are updated with each release. Operations
- Navigator and PN/400 provide many state-of-the-art performance analysis function to iSeries customers.

IBM eServer iSeries First Install Customer Assistance

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.

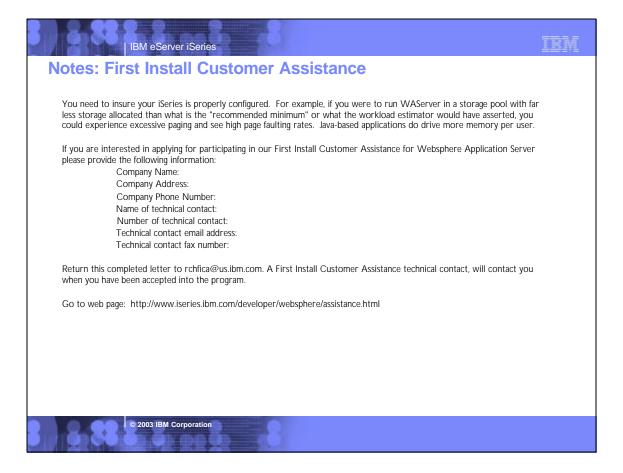
This assistance includes:

- 1. Documentation clarification
- 2. Verify you have all Prerequisites available: Software, Hardware, PTF's, and Communication configurations
- 3. Creation of a default Websphere instance

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- 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



IBM eServer iSeries Getting Access for Web installed & running... How is iWA installed and configured on the iSeries server To get iSeries Access for Web installed and running on the iSeries server, a series of steps must be performed. These steps are outlined in great detail in the iSeries Access for Web Setup & Users Guide. To help you understand what these steps are, below is a highlevel summary of the steps it takes to get iSeries Access for Web up and running... 1. Run RSTLICPGM server command to install iSeries Access for Web on the iSeries server. 2. Load/Apply any iSeries Access for Web PTFs, and any other dependent product PTFs. 3. Perform HTTP server setup (if not already done). 4. Perform Web application server setup (ie, WebSphere Application Server or Tomcat)(if not already done). 5. Run iSeries Access for Web CL command CFGACCWEB2 is run to configure iSeries Access for Web within the Web application server. 6. On WebSphere Application Server Advanced Single Server Edition V4.0 and ASF Tomcat, iSeries Access for Web starts when the Web application server is started 7. On WebSphere Application Server Advanced Edition V4.0, you must additionally run the iSeries Access for Web CL command STRACCWEB2 to start iSeries Access for Web. Now when Web browser user invokes URL http://<server_name>/webaccess/iWAHome, they are using iSeries Access for Web

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Notes: Configuring iSeries Access for Web

Examples for CFGACCWEB2

Example 1: Configuring ASF Tomcat CFGACCWEB2 APPSVRTYPE(*ASFTOMCAT) TCSVRNAME(TOMCAT)

TCHOMEDIR('/ASFTomcat/tomcat') TCUSRPRF(QTMHHTTP) SRCSVRTYPE(*WAS40SNG) SRCSVRINST(DEPTABC) SHRUSRDTA(*YES)

This command will configure iSeries Access for Web for an ASF Tomcat server called Tomcat. This example also shows that this configuration will be based on a configuration that was performed in a previous example. User generated data will be shared between the source configuration and this new configuration.

Example 2: Configuring WebSphere Advanced Edition 4.0 CFGACCWEB2 APPSVRTYPE(*WAS40ADV) PORT(5098)

WASINST(*DEFAULT)

This command will configure iSeries Access for Web for the default administrative server (instance) of WebSphere Advanced Edition 4.0. The iSeries Access for Web web container that is configured will use an HTTP transport port value of 5098.

Example 3: Configuring WebSphere Advanced Single Server Edition 4.0

CFGACCWEB2 APPSVRTYPE("WAS40SNG) WASINST(DEPTABC) This command will configure iSeries Access for Web for a user created administrative server (instance) called DEPTABC within WebSphere Advanced Single Server Edition 4.0.

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Example 4: Configuring WebSphere Application Server 5.0

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CFGACCWEB2 APPSVRTYPE(*WAS50) WASINST(DEPTXYZ) This command will configure iSeries Access for Web for a user

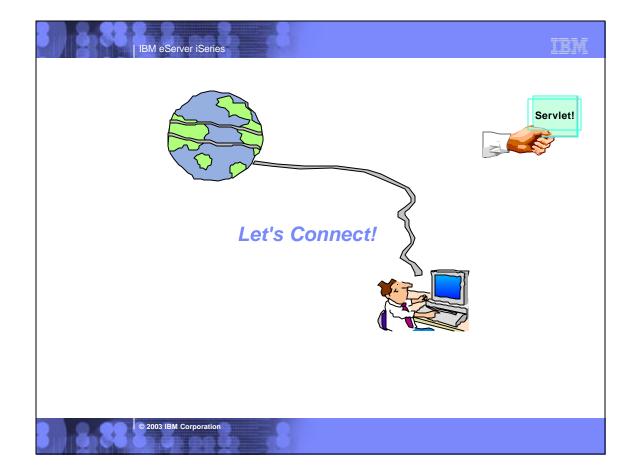
created administrative server (instance) called DEPTXYZ within WebSphere Application Server 5.0.

Example 5: Configuring WebSphere Application Server -Express 5.0 CFGACCWEB2 APPSVRTYPE(*WAS50EXP)

WASINST(*DEFAULT)

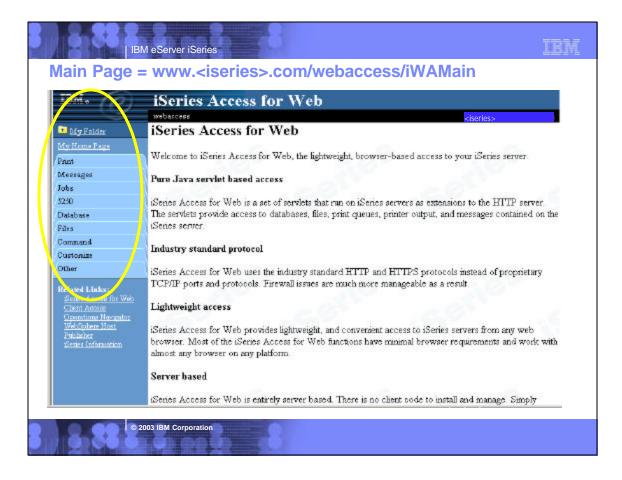
SRCSVRTYPE(*WAS40ADV) SRCSVRINST(*DEFAULT) SHRUSRDTA(*NO)

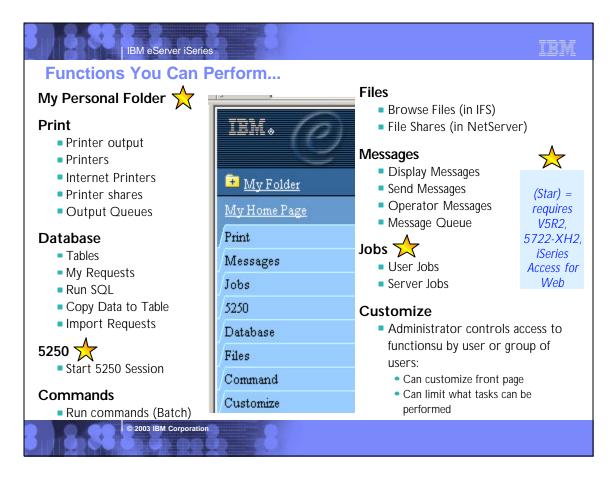
This command will configure iSeries Access for Web for the default administrative server (instance) of WebSphere Application Server -Express 5.0. This example also shows that this new configuration will be based on a configuration that was performed in a previous example. User generated data will be copied from the source configuration to this new configuration

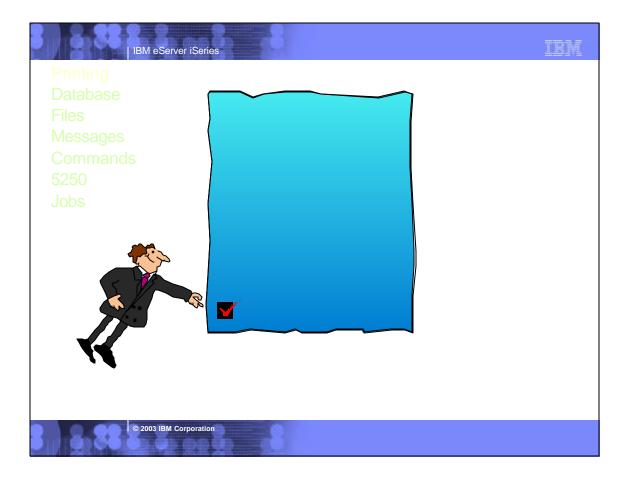


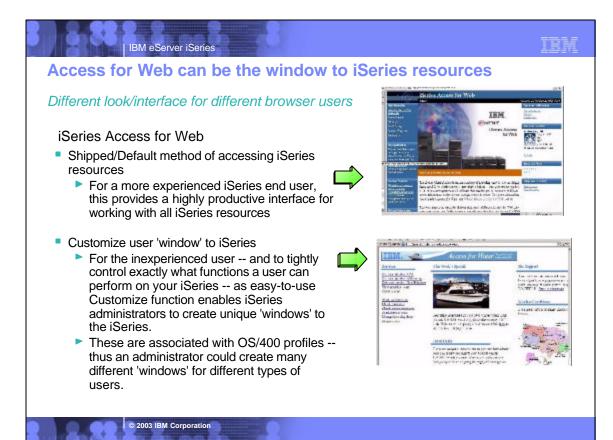
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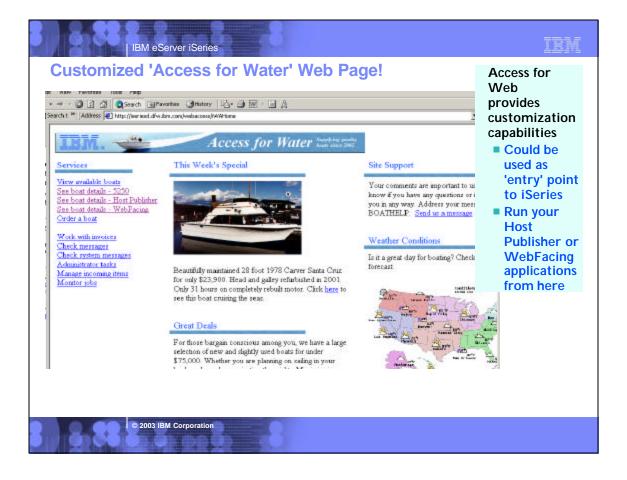


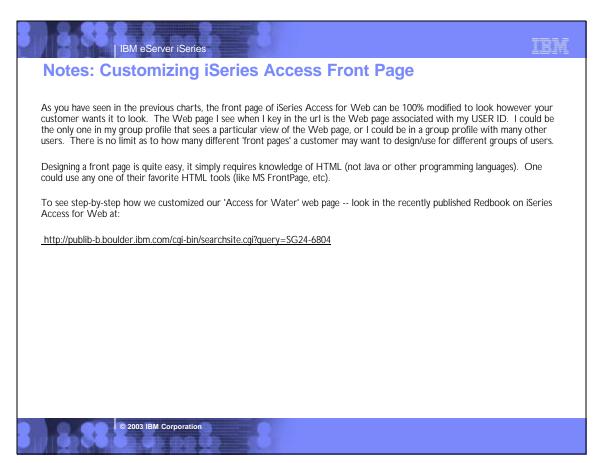


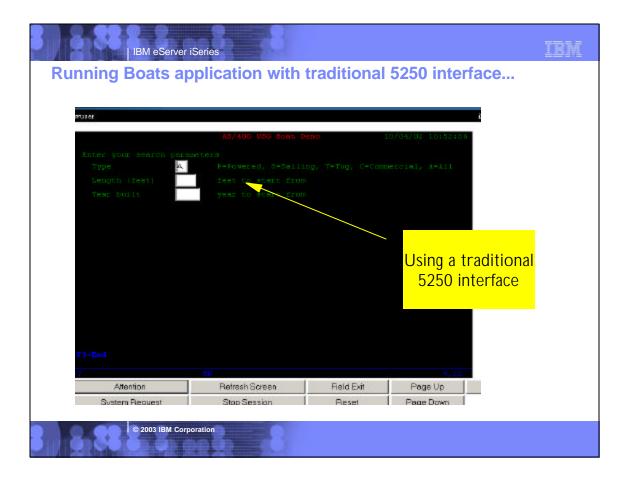


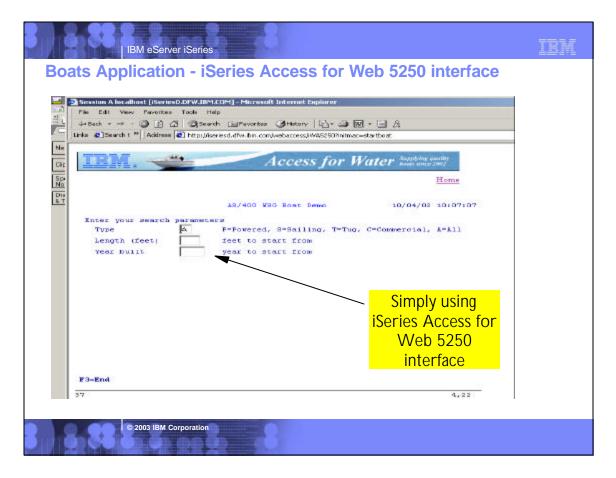




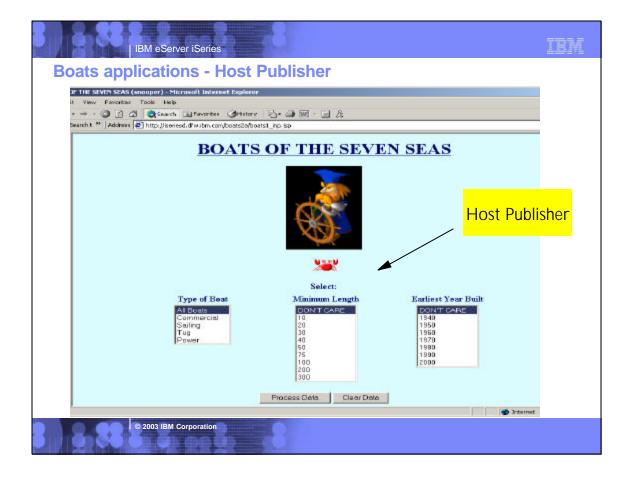








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See boat details - 5250 See boat details - Host Publisher See boat details - WebFacing Order a boat	Date Thursday, June 13, 20				ow n to an and send
	Description	Part No.	Quantity		
Work with invoices	Hunter 33.5	O04356	1		
Check messages	Boat trailer	199234	1		
<u>Check system messages</u> <u>Administrator tasks</u>	Boat anchor	O43993	1	FREE	\$0.00
<u>Manage incoming items</u> <u>Monitor jobs</u>				Subtotal	\$59,700.00
			8. 	Так	7.00%
				TOTAL	\$63,879.00

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Demo this to your customers	
You can try iSeries Access for Web, WebSphere Host Publisher or WebFacing by:	
 Accessing the following web site through your browser: http://iseriesd.dfw.ibm.com/webaccess/iWAHome (case sensitive) This is a Marketing machine in Dallas - DEMOnet 	
 Use the following User ID and password to sign into the EXPERIENCED USER page: User ID of WUSER 	
Password of GUEST1 (a one, not an L)	
This shows the basic look of Access for Web as we ship it. You can try various functions including workir with printer output and the options we provide. You can click on the 5250 tab, sign onto the iSeries, then star RPG application called BOATS and run it.	
Start up a different another browser session to same url address above, and use the following User ID and password to sign into the Access for Water INEXPERIENCED USER page:	
User ID of BOATADMIN	
Password of ADMIN1BOAT (a one, not an L)	
This is an example of how a customer might design a web page for their use. You will see that an end user start the same BOATS application by clicking on the 5250 session or if they had used WebFacing or Host Publisher they could run the application with them. So click on all 3 links and see the same application in different views. You will also see other links that would let a user work with spoolfile information, work with IF run database requests, etc	İ
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Customize by 'group' and 'user'

IBM eServer iSeries

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🖬 My Folder	Customize	Group Profiles	
My Hone Page	2 10 10	7. 6 1. 1923	
Print	To add or change	e settings for a profile, select Edit.	
Mossigos	10 4 4 [11 > 1	Di n	
Jobs	1		
\$250	Profile	Description	Action
Database	PUBLIC	Default settings for all users	Edit
Files	COOLGROUP	Janet W	Edit
Command	GROUPA	RENATA E G	Eát
Custonize	GROUPB	Juan Pablo H	Ecit
Preferences User profiles	GRUPOC	'Daniel E.	Edit Copy Reset
Geoup peofiles	JAVAVULP00	JAVAVULP00-Dept	Eát
Selected peofile	SALESMEN	Test group for Carole Miner	Edit Copy Reset
Other	TESTGROUPI		Edit
Related Links:	TESTGI	GDL TEST 5257	Edit
Genes Access for Web Object Access	TESTG2		Eát

*PUBLIC is default user group shipped by Access for Web.

- Any setting you put in here will apply to all Access for Web users
- Access to information is checked via:
 - 1. OS/400 user
 - profile
 - Group
 - settings 8. *PUBLIC
 - settings

IBM eServer iSeries

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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.

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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

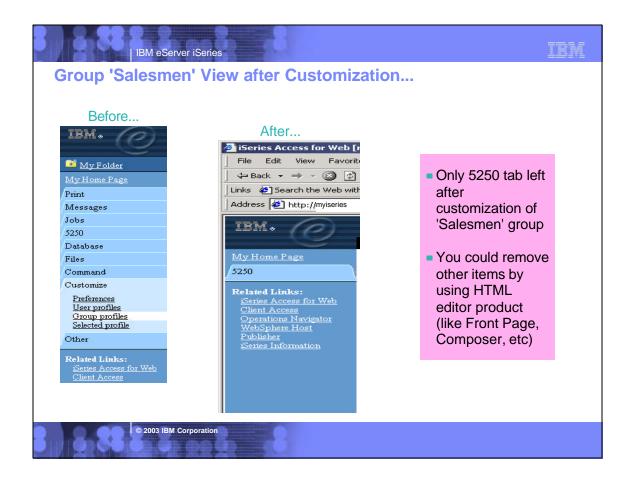
- change the order of columns, hide unwanted function menus, hide unwanted columns of information, change the default system settings, customize the iSeries Access for Web home page, customize the headers and footers of the HTML template
- Regular users will be allowed to change certain personal settings:

 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 is 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)

iSeries Acc	ess for Web
webaccess	
Customize G	oup Profile
Profile: SALESMEN	
To customize this prof	le, 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.
and a second sec	Run batch command custom settings.
Command	
<u>Command</u> <u>Mail</u>	Send mail custom settings.
	Send mail custom settings. My folder custom settings.
Mail	
<u>Mail</u> My folder	My folder custom settings.



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TBM

💼 My Folder	Customize - Database	_		
<u>My Home Page</u>				
Print	Profile: GROUPA			
Messages	Policy	Derived From	Action	
Jobs	Database tab	Shipped default	Use current setting	Show -
Database Files	Tables	Shipped default	Use current setting	Allow -
Command	Maximum table rows	Shipped default	Use current setting	500 -
Customize	Table filter	Shipped default	Use current setting	*USRLIBL
<u>Preferences</u> User profiles	Table filter is user preference	Shipped default	Use current setting	Allow 🔻
Group profiles	Insert records into table	Shipped default	Use current setting	Allow 💌
<u>Selected profile</u> Other	Update records in table	Shipped default	Use current setting	Allow -
Otner	Quick view table records	Shipped default	Use current setting	Allow 💌
Related Links: iSeries Access for Web	Maximum quick view rows	Shipped default	Use current setting	1000
Client Access	Requests	Shipped default	Use current setting	Allow -
<u>Operations Navigator</u> <u>iSeries Information</u>	Run request	Shipped default	Use current setting	Allow 💌
	Copy request	Shipped default	Use current setting	Allow -
	Delete remert	Chinnad default	Lles ourrent estting	Allow

IBM eServer iSeries

IBM eServer iSeri

Notes: 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

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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

Notes: Customizing User Access to iSeries

Administrator Capabilities = Policies

Home Page Customization

IBM eServer iSeries

 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'

IBM eServer iSeries

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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 <u>Related Products</u>.

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.

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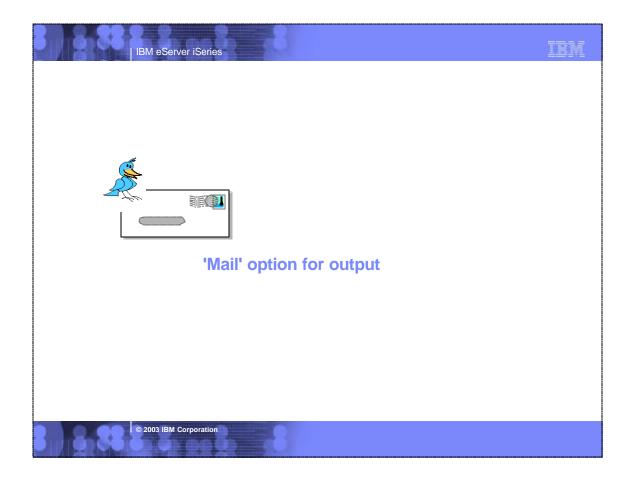
User Profiles - the User Profiles function on the Customize tab is available only to iSeries Access for Web administrators. This function displays a list of user profile names retrieved from the iSeries server. The list of profiles includes the ones the administrator is allowed to update. From this list,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

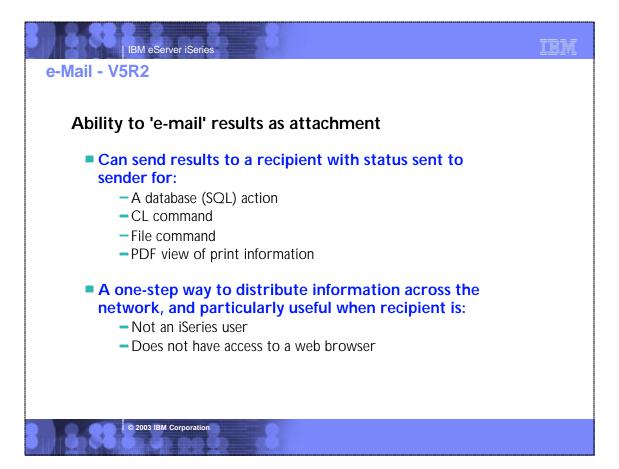
Group Profiles - the Group Profiles function on the **Customize** tab is available only to iSeries Access for Web administrators. This function displays a list of group profile names retrieve from the iSeries server. The list of profiles includes the one the administrator is allowed to update. From this 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.

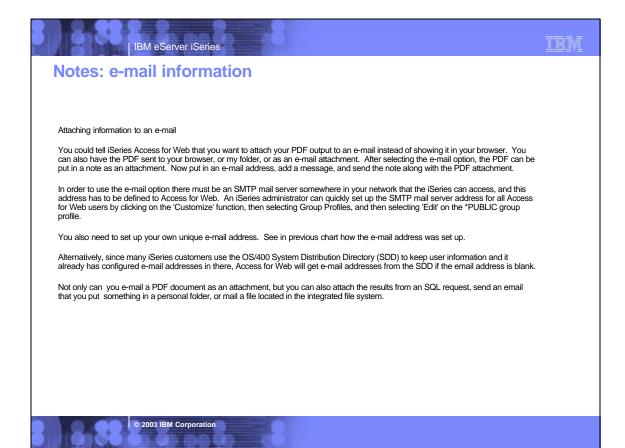
See <u>Administering Users and Groups</u> in the iSeries Access for Web Setup Guide for more information on how to administer iSeries Access for Web policy settings.

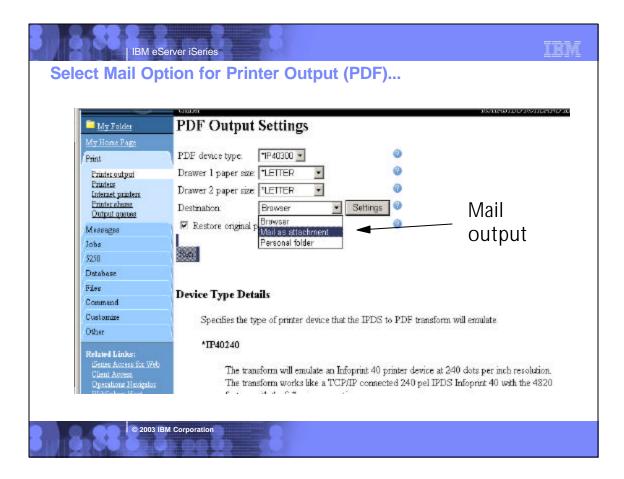
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	M eServer iSeries			IBM
Set up my s	session for e-mail ca	pability		
IBM.	iSeries Access for W	'eb		
My Folder	Customize - Mail			RCHAS1DD.RCHI
My Home Page Print	Profile: CMINER			
Messages	Policy	Derived From	Action	Setting
Jobs 5250	Send mail	Shipped default		Allow
Database	SMTP mail server	Profile setting	Use current setting	us.ibm.com
Files	E-mail address	Profile setting	Use current setting	cminer@us.ibm.com
Command	E-mail address is user preference	Shipped default	Use current setting	Allow -
Customize <u>Preferences</u> <u>User profiles</u> Group profiles	OK Cancel To set u	p SMTP se	rver:	
Selected profile	 Use *PUBLIC to set up same address for all users 			
Other	 If blank, Access for Web will use information in SDD 			
Related Links:			st be set for eac	
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IBM+ (C)	iSeries Access for Web	
	contact ROHASIDD.RC	HLAN
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My Home Fage	From: ominer@us.ibm.com	
Print	To: smsha@us.ibm.com	
Printer output Printers		
Internet printers	CC:	
Printer shares Output queues	bee:	
Messages	Subject: Today's Job Log	
Jobs		
5250	Bere's the information you requested.	
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Client Access		
WebSphere Host	OK Cancel	
Genier Access for Ven Glent Access Operations Navigator	ARAULINER, QFFOBLOG PATHOCCELLIER, QFF150BD, NFDF	



TBM IBM eServer iSeries My Folder - new in V5R2 version... My Folder **Combine new Mail** Container resides on the web server function with My and can only be accessed by owner **Folder** function to: Perform requests for - Good for long-running requests (ie, actions someone else performed asynchronously so the browser Distribute results to a is not tied up) group of users - An easy way to avoid large attachments (ie, Send email to other a large query result) when you place information in their Can place information in other Folder users' My Folders Be notified when new items are placed in - Performing requests for someone else your Folder - Mechanism for workflow.

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Notes: Mail and My Folder

IBM eServer iSeries

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" in he 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

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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 configure 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.

IBM. (D)	iSeries Access for Web
	trine
🖬 My Folder	PDF Output Settings
My Hone Page	
Print	PDF device type: 11P40300 -
Printer output	Drawer 1 paper size: TLETTER 💌 🥝
Printers Internet printers	Drawer 2 paper size: LETTER 💌 🖉
Printer shares	Destination Personal folder
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Messages	Personal folder
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Command	Device Type Details
Customiza	Specifies the type of printer device that the IPDS to PDF transform will emulate
Other	
Related Links:	*IF40240
Series Access fite Web	The second
Cheed Access Operations Newspites	The transform will enxiste 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
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Files Command Customize Other Related Links: Series Access for Web	DAWALL (Dave Wall 3-5329) DBM (Dave Murray) DEMOUSERS DEMOUSER1	
© 2003 II	BM Corporation	

My Folder My Folder My Home Page Print Messages Jobs Item Status From Date/Time Size Action				
Print Id 4I + [1] > > > Id 42 Messages Item Status From Date/Time Size Actis				
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BM eServer iServer Enhanced 5250 interver No longer designated 'just	rface	5250 Interface now provides:
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MAIN OS/400 Select one of the following: 1. User tasks	Home Main Monu Statement Statement Internet and the second statement of the second statement internet internet for second statement of the second stat	work with keyboard keys) 132-column support
Other basics Other basics General system tasks General system tasks Programming Communications Define or change the system Problem handing Display a menu Display a menu Display a menu Display a menu Sign off	Receives for Water Second	 Keypads Macros Contains a series of cursor position commands and user input
F23-Set initial menu	F13=Caarol F13=Laformation Assistant	 Cursor positioning Ability to place cursor at non-input fields for cursor sensitive applications



Notes: A New 5250 Interface in V5R2 for those on the go... Configuring the Session

The 400 Newsletter, Special OS/400 V5R2 Edition, Volume 11, Number 36 -- August 29, 2002, by Becky Schmieding

It's 9 p.m., the phone rings, and your boss asks if you could check on a program that's running and access some sales data. You've left your notebook PC at the office and your home PC doesn't have iSeries Access for Windows loaded, so what do you do? You can access your iSeries from your home PC by using the new 5250 interface available in V5R2 iSeries Access for Web

I can hear it from here: "What? IBM has another product for 5250 support?" As a semi-expert on PC5250, I too was a bit skeptical of what this new interface was going to be like. However after looking and playing around with it for a while, I am very impressed with the speed and functionality of this interface.

What Do You Want from 5250 Interface?

As Levaluated this 5250 interface. I thought about the functions currently available with PC5250 in iSeries Access for Windows (formerly Client Access Express). I also thought about what I really like and what I really like and what I really need in order to be productive.

In addition to this new 5250 interface, with iSeries Access for Web. I have access to the iSeries database and Integrated File System (IFS), printers and output queues, as well as the capability to run batch commands and send/receive messages.

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One of the most appreciated enhancements to PC5250 in the past couple releases is what is called generic Workstation ID (i.e., the capability to have a session configured and allow that definition to be used multiple times yet have a unique workstation ID for each session). Of course we would all agree that it would also be good to have a 5250 interface that has the capability to automatically switch from 80 to 132 columns and back as the screen data requires. Both of these functions are available with iSeries Access for Web's new 5250 interface.

Customizing the Visible Interface

Everyone likes to be unique and have the ability to set up their sessions with their own color schema and, while some people would prefer to see the 5250 interface looking like their traditional green on black PC5250 displays, others would prefer it to look more like a Web interface. iSeries Access for Web supports showing the 5250 interface in either the traditional green on black or the Web view. It also allows you to redefine the colors displayed in either format.

Customizing the User Interface

What you see on the display and will use is important. To avoid the retraining of users, you need to ensure that the interfaces are the same whether you are using iSeries Access for Web 5250 interface or iSeries Access for Windows PC5250. You want Enter to be Enter and you want to be able to use function keys (F1 through F24, Page Up and Page Down keys) as they were intended to be used -- by pressing the keys. You do not want to select these functions using the point-and-click method. iSeries Access for Web 5250 interface provides the Enter key support, and, if Enable advanced JavaScript functions for Internet Explorer is selected or left as default on the Session Configuration screen, you will also be able to use the F1 through F24 and Page Up/Page Down keys directly when using Microsoft Internet Explorer. The keyboard is not customizable like PC5250, but there is the capability to customize keypads, which are similar to PC5250 pop-up keypads

IBM eServer iSeries

Notes: Article (continued)...

While PC5250 keypads are moveable and "sticky" (for more than one-time use), iSeries Access for Web keypads are configured to be on or off, in one or all of three set locations (above, below, and to the left of the 5250 display) and are displayed until removed from the configuration. Just like PC5250, macros and/or function keys can be assigned to a location on the keypad.

Another key function in PC5250 that any new 5250 interface will need is hot spot support. ISeries Access for Web has a hot spot function that PC5250 doesn't have: an easy way to allow menu option to be a hot spot. With PC5250, you either need to select Enter string at cursor position or create macros for menu options. However with iSeries Access for Web, you simply select Enable menu items as links. n addition, there is an option to Enable message text line as help link, which allows you to click on displayed error messages and be taken to the help text for that message.

Just like PC5250, you can make function keys show on the display as hot spots by selecting Enable active function keys as buttons. iSeries Access for Web also allows you to decide how those keys should be displayed: with key and action shown (i.e., F3=Exit, F12=Cancel) or with only function shown (i.e., Exit, Cancel) by selecting or deselecting Show function key text (Fxx=) on button (See Figure 2). One more item that can easily be made into a hot spot is the More... text on the display screens.More... means there are more options or information on another screen that can be accessed by pressing the Page Down or Page Up buttons. Just specify the Enable More... as button.

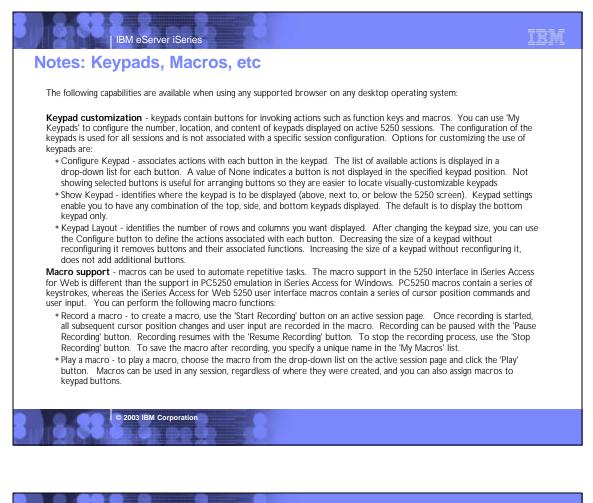
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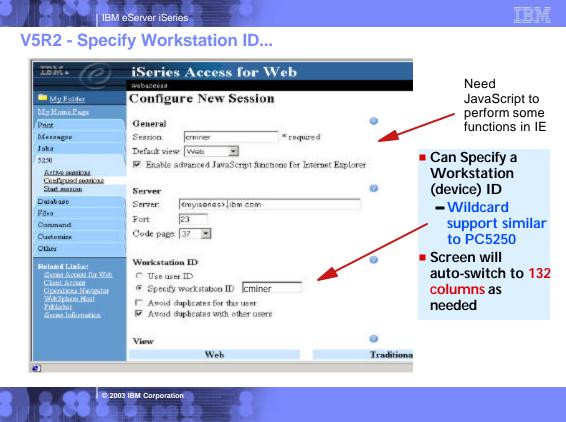
Speeding the Macros

When using PC5250, I've always found macros to be a way of speeding some repetitive task. So support of macros would be a requirement for any 5250 interface. It would also be nice if I could convert my existing macros. This time, iSeries Access for Web delivers one of my two requirements. It supports the recording and playing of macros. PC5250 has macro support in both VBScript or PC5250 format that contains a series of keystrokes, while iSeries Access for Web macros contain a series of cursor position commands and user interfaces. Unfortunately, there is no conversion between PC5250 macro support (either PC5250 macros or VBScript format) to iSeries Access for Web macro support. However, maybe I can trade the macro performance for lack of macro conversion. PC5250 recently added an option to remove think time during macro record, which helped speed macros during playback. However, if you recorded a macro that moved through multiple screens, you would still see each screen. With iSeries Access for Web's 5250 interface, you move from the first screen to the last screen without displaying the screens in-between. This macro performance might just be worth re-recording your existing PC5250 macros in order to save execution time.

Other Interesting Tidbits

Once you've configured a session, it will be displayed on the Configured Session page where you can either edit, delete, or start that session. (Think of a session like a PC5250 workstation profile.) Once you've started a session, you can switch between sessions by going to the Active Session page, which will show you the sessions you have initiated, and you will be able to either reconnect to that session or stop the session. By the way, if you want a quick way of starting a session, just click on Start Session tab.





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:

TRM

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

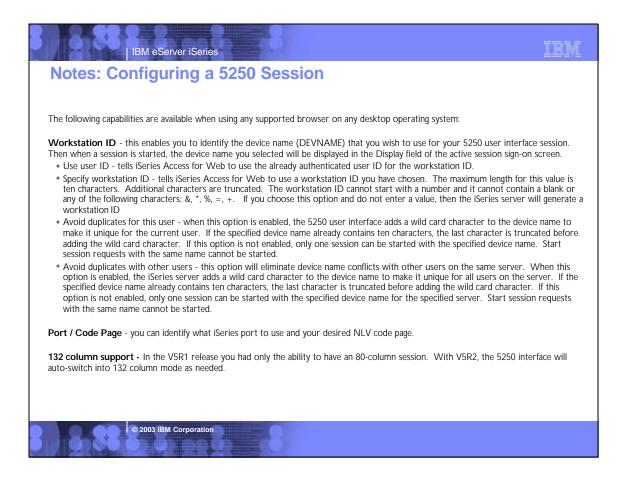
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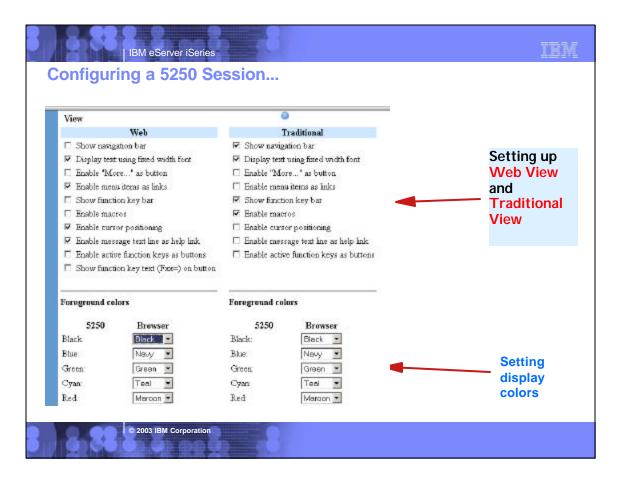
- Additionally, when you are using the 'Configured Sessions' function, you can specify to:
- Save As Defaults this will save your current settings as your defaults. Then later if you configure a new session those saved default values will be used as your initial values, or if you simply select to 'Start Session', the default settings will be used to start the session have been used to realize the grant the transmission of the grant settings are been used to realize the grant 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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User	cminer			
Password Program/procedure				_
Menu Current library				
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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:

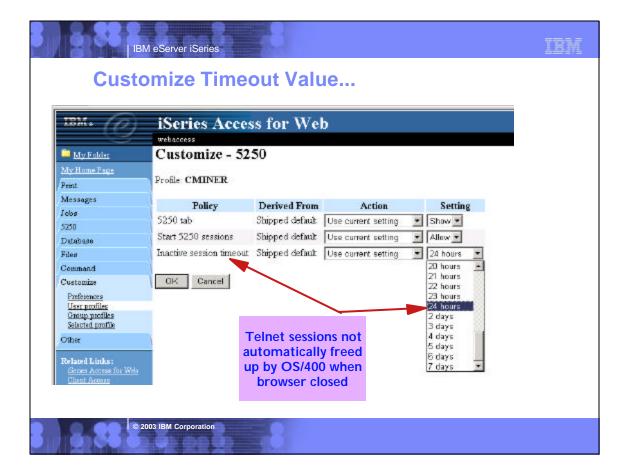
- Web View (default) presents 5250 screens that will look similar to other web
 pages. The web view uses links for menu options, cursor positioning, and
 retrieving message text help. Since the browser's default background colors are
 used for displaying screens, you can modify colors through your browser 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 thecursor is positioned on the command line, the F9 key retrieves previously run commands.

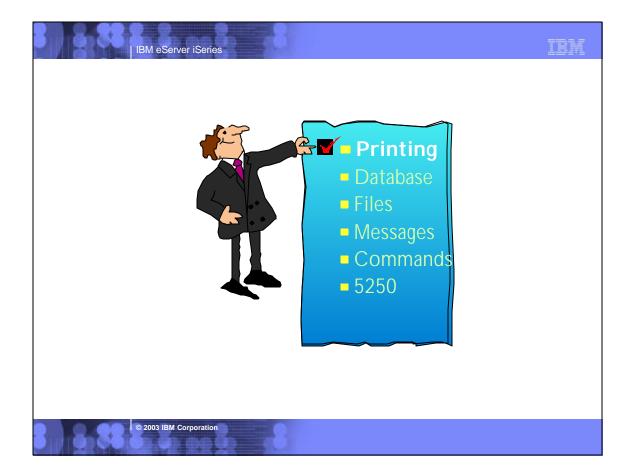
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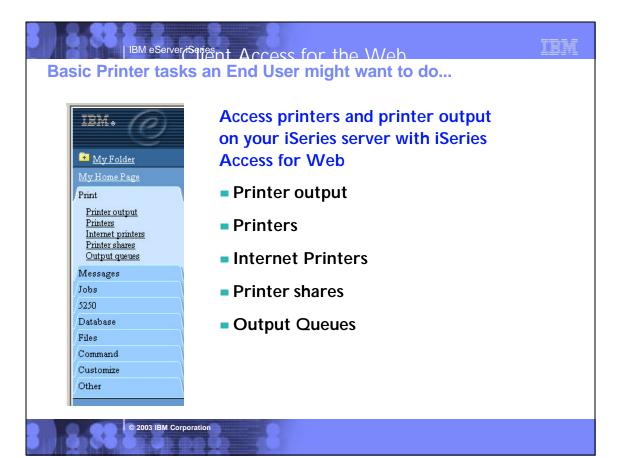
Enable active function keys as buttons - this setting specifies whether the active function keys are enabled as buttons or displayed as text. If configure this way, you do not need to use your mouse to press a button to enable a function key - you can simply press the function key on my keyboard to evoke the function key. Even if you chose to display the function 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 asys 'Enable advanced lavaScript 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 lavaScript function is enabled. If you are using Netscape or Opera browsers, or not running on Windows desktop) when the JavaScript function is prover a support of the support of the support of the support running on Windows desktop, 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).







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 can also be used to view SCS spooled files. Most types of spooled files may be viewed in GIF, TIFF and PCL formats.

<u>Printers</u> - 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. This 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.

IBM eServer iSeries

- 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

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- Transform PCL print files into AFP
- Transform PostScript Level 3TM print files into AFP

New in

V5R1/

- 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

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Notes: Infoprint Server for iSeries

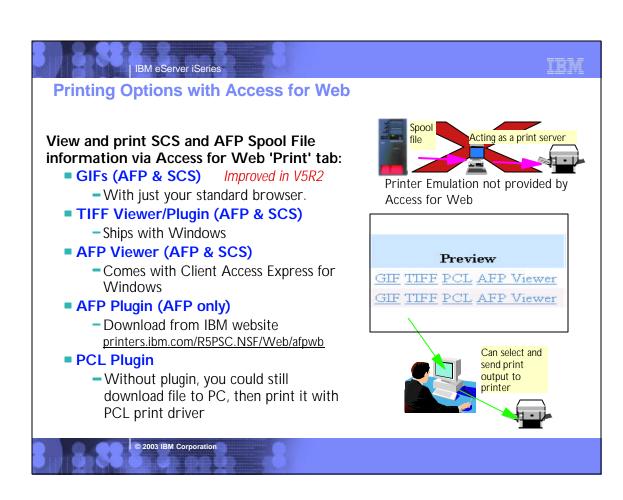
Infoprint Server for iSeries integrates PDF support into the OS/400® output architecture. The PDF subsystem enables the production of PDF from any standard OS/400 output format — SCS, AFP™, IPDS™, even OfficeVision/400™ format. PDF transformation creates text-based, non-image ASCII PDF. This ability 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.

TRM

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 idex 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.

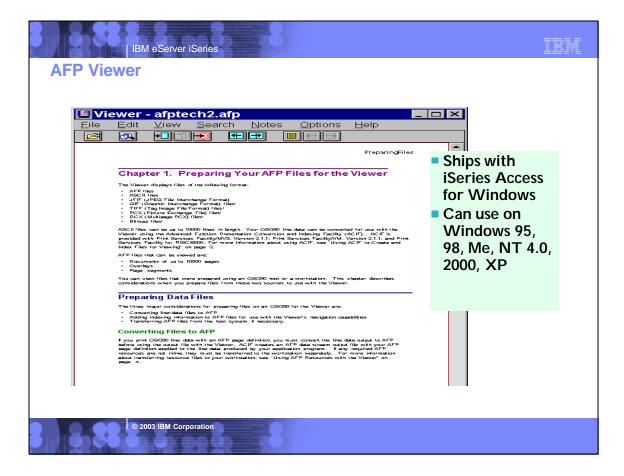
Networked printing - A core focus of Infoprint Server is applying the substantial print management capabilities of iSeries servers to the proliferation of output pages and printers in today's typical enterprise networks. Client, network, and even ERP applications are generating documents and reports 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.

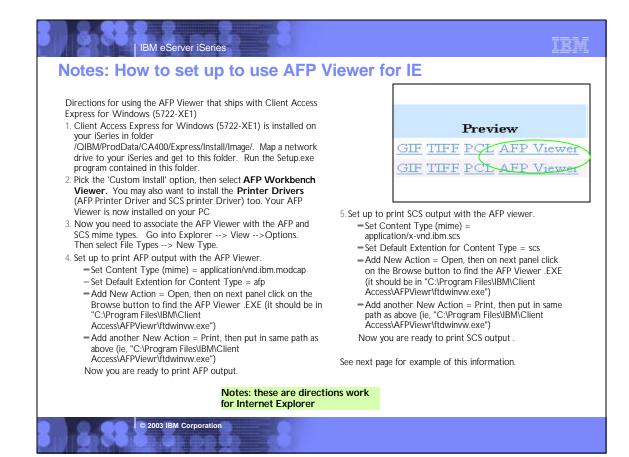


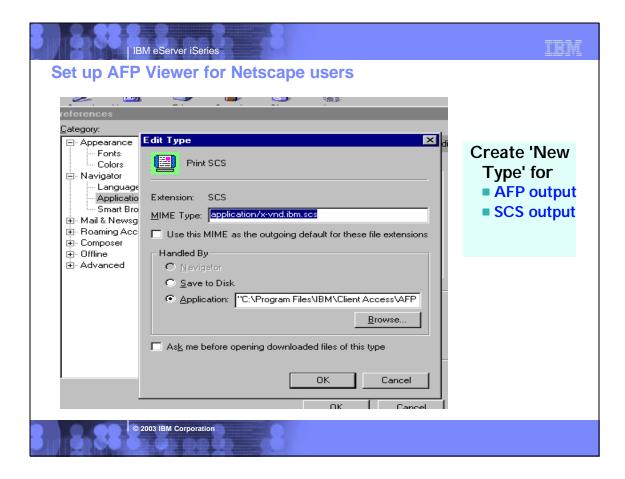


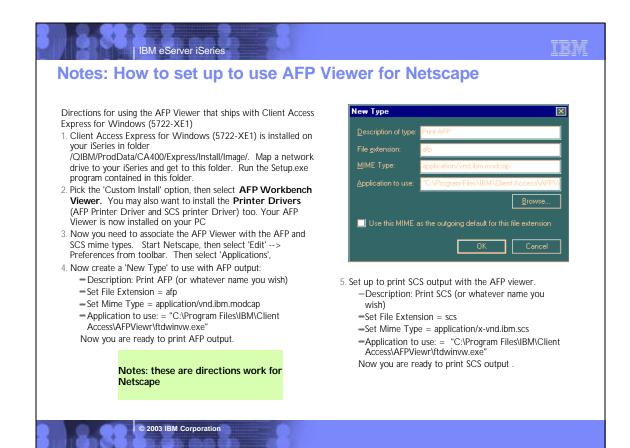
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QPDSPAJE		4/11/02 10:07 AM	7	1	Ready	Hold Print Next Delete PD	F GIF TIFF PCL APP Vies
QPJOBLOG	QPADEV000D	4/3/02 8:39 PM	2	1	Ready	Hold Print Next Delete PD	F GIF TIFF PCL AFP View
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Joha	APRINTER	Unavailable	Make Available Start	DEPTB	QUSRSYS/APRINTER	NetServer,
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WebSphere Host Publisher	IWAAFP	Unavailable	Make Available Start	Printer for Access	OUSRSYSTWAAFP	

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Internet Printers

IBM eServer iSeries

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Missigis	IppBasic	QUERSYSAPP	http://RCHAS1DD:631/ipp/printers/IppBasic	Auto-select
lobe	ABENATA®	QUSRSYS/ARENATA	http://RCHAS1DD:631/ipp/printers/ARENATAip	Auto-select
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Files Command	lpp	OUSRSYS/IPP	http://RCHAS1DD.631/ipp/printers/Ipp	Auto-select
Custonize	DBMPDF	QUSESYS/DBMPDF	http://RCHAS1DD:631/app/printers/DBMPDF	Auto-select

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

IBM eServer iSeries

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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

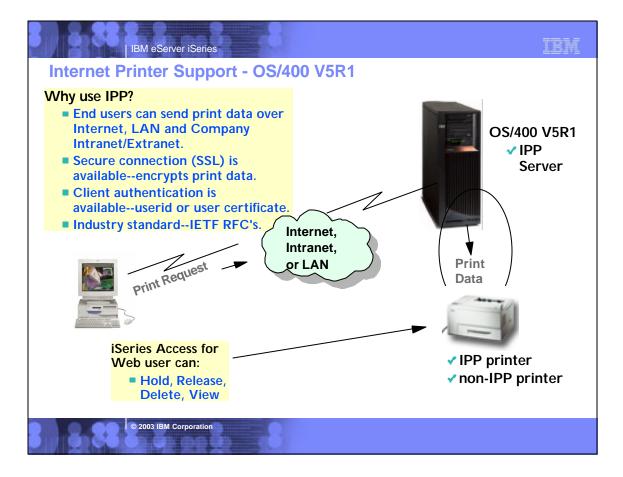
You need to provide printing services across several existing LANs, which consist of both PCs and several servers, and must include your sales staff at several remote offices across the country. Because your printing solution ties in existing hardware from a several LANs, you require a printing solution 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.

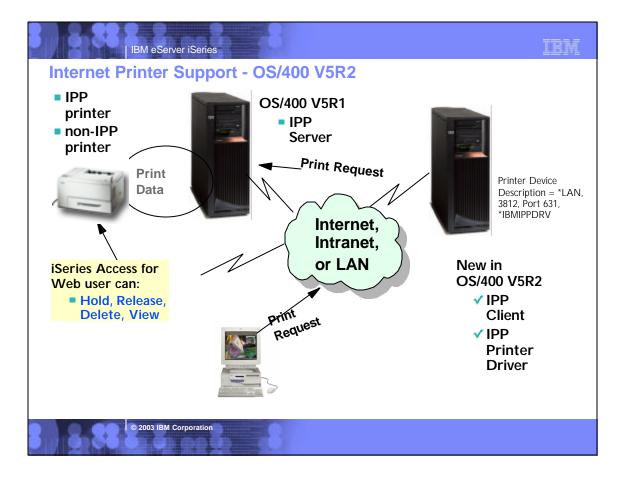
Details

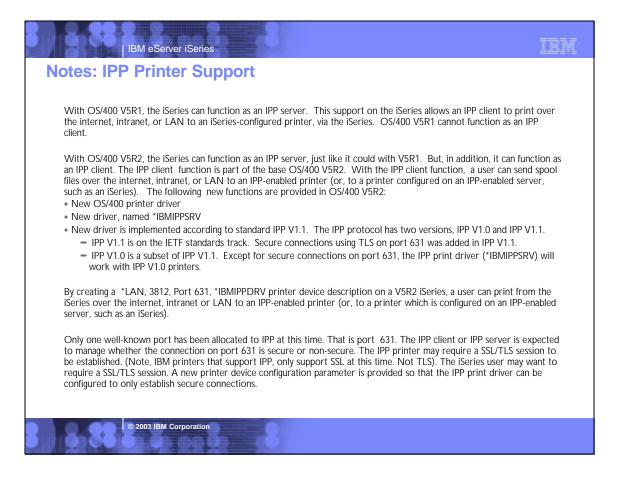
IPP printing requires an IPP server handling requests from a variety of IPP client devices. Since this communication uses HTTP, print requests can travel over your company's Intranet or over the Internet. IPP uses SSL to encrypt communication and provide secure connections.

IPP server is available in OS/400 V5R1. The IPP driver requires V5R2.

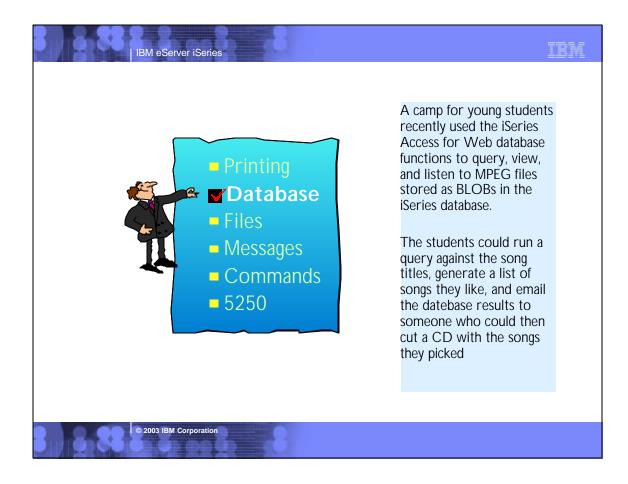
© 2003 IBM Corporation

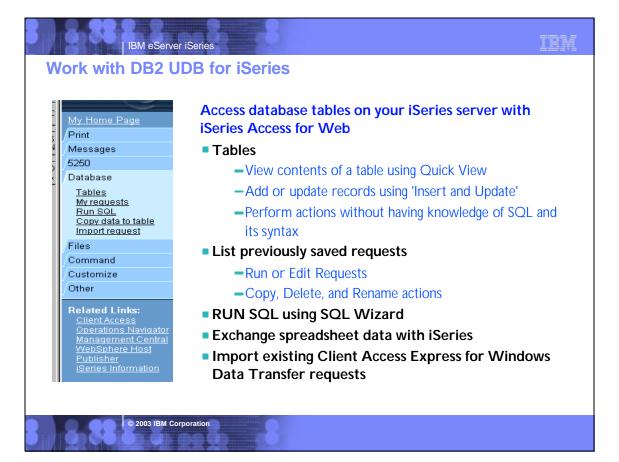






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<u>My Home Page</u> Print	⊲ ≪ ◀ [1] ▶ 1≫ ▷	R			
<u>Printer output</u> Printers	Output Queue	Status	Action	Files	Writer
Internet printers	QGPL/ADAFIN	Held	Release	0	
<u>Printer shares</u> Output queues	QGPL/ADAFIN1	Released	Hold	0	
Messages	QGPL/EFLORES	Released	Hold	0	
Jobs	QGPL/GPA#	Released	Hold	0	
5250	QGPL/OBJOUTQ2	Released	Hold	0	
Database	QGPL/QDKT	Released	Hold	0	
Files	QGPL/QPRINT	Released	Hold	6832	
Command	QGPL/QPRINTS	Released	Hold	13	
Customize	QGPL/QPRINT2	Released	Hold	0	
Other Related Links: Series Access for Web Client Access		ሚ			





Notes: Access database tables on iSeries

Tables

- View a list of database tables on your iSeries server.
- $\ensuremath{^\circ}$ 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.

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• Save requests for repeated use.

Copy data to table

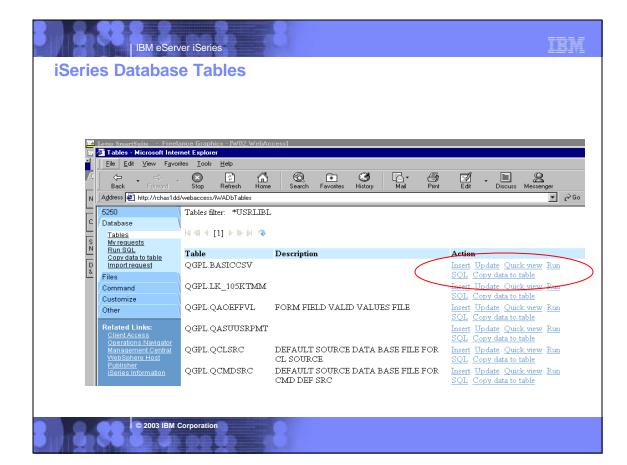
- Copy existing data files from your PC to a database table on your iSeries server.
- These data files can be in many popular file formats, including Microsoft Excel and Lotus 1-2-3.

TRM

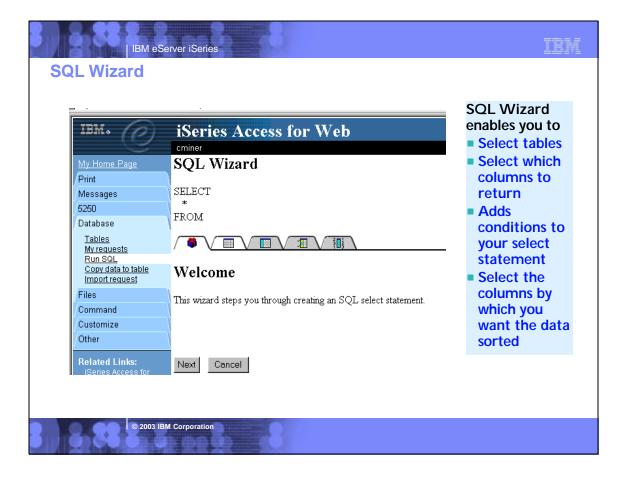
- Replace the contents of a table or add data to an existing table.
- Create a new database table based on the contents of a workstation file
- Save requests for repeated use.

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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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:

IBM eServer iSeries

- 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.

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- 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.

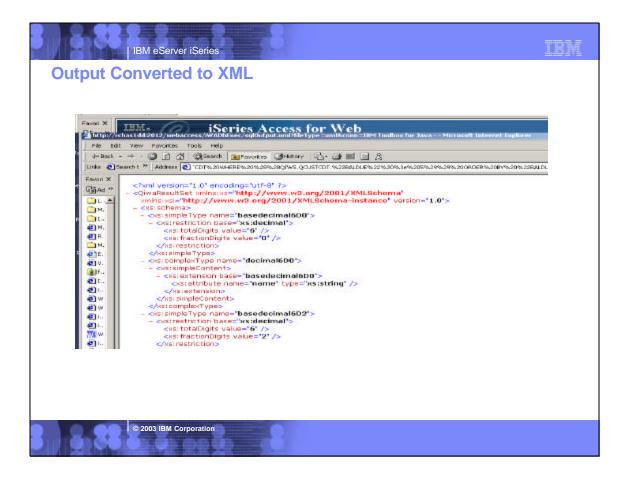
Some languages do not support four different date and time formats. Therefore, some entries in the format lists can be identical.

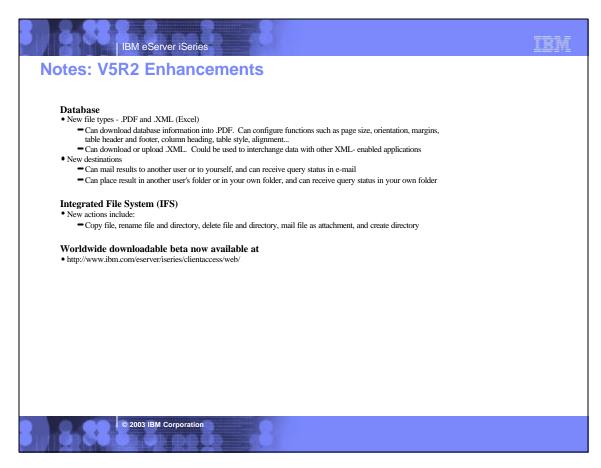
Connection Details

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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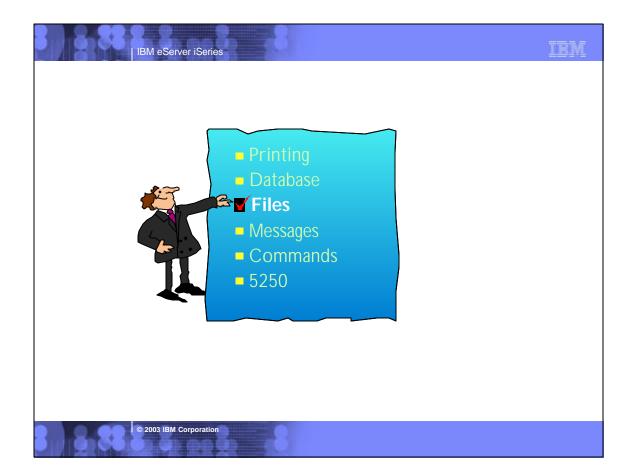


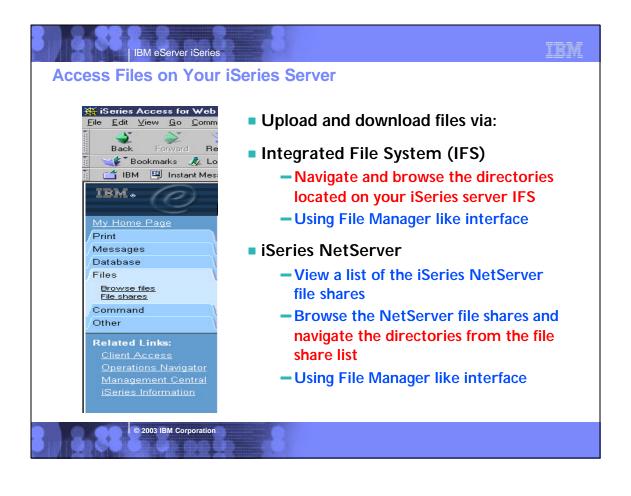


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Notes: File Mime - Type Mapping

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 ftp://ftp.isi.edu/in-notes/iana/assignments/media-types/media-types.

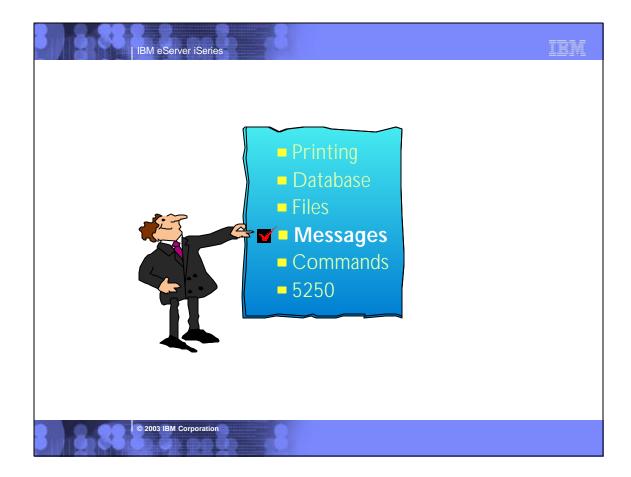
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See example of information there at right.

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.

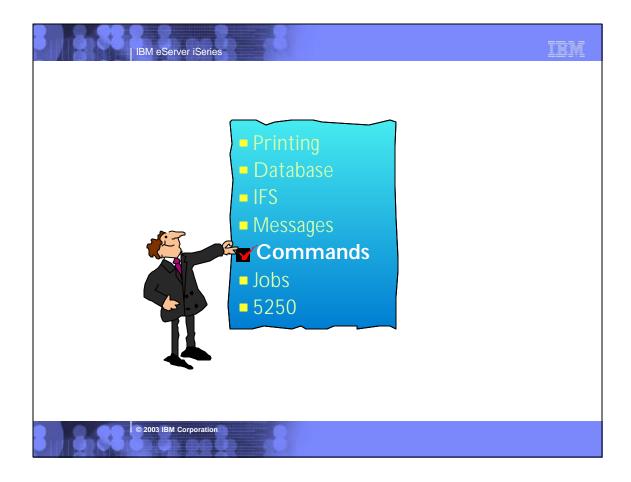
Content 7	Types and Subtypes	
Туре	Subtype	Reference
text	plain	[RFC2646,RFC2046]
	richtext	[RFC2045,RFC2046]
	enriched	[RFC1896]
	tab-separated-values	[Paul Lindner]
	html	[RFC2854]
	sgml	[RFC1874]
	vnd.latex-z	[Lubos]
	vnd.fmi.flexstor	[Hurtta]
	uri-list	[RFC2483]
	vnd.abc	[Allen]
	rfc822-headers	[RFC1892]
	vnd.in3d.3dml	[Powers]
	prs.lines.tag	[Lines]
	vnd.in3d.spot	[Powers]
	CSS	[RFC2318]
	xml	[RFC3023]

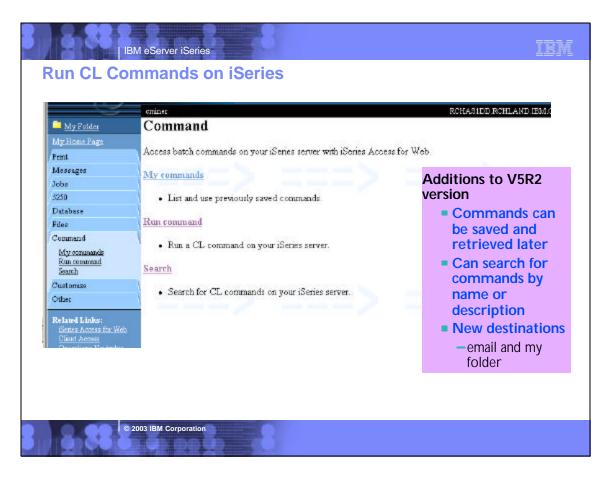


IBM eSe	rver iSeries
Messages	
IBM.	Send messages
My Folder	 Send a message to <u>users</u> and <u>message queues</u>
My Home Page	Display messages
Messages Display messages Send message Operator messages Message queues	 Display, answer and manage messages in the message queue for the logged on user
Jobs	Operator Messages
5250 Database Files Command Customize	 Display, answer and manage messages in the <u>system</u> operator message queue
Other	Message queues
Related Links: iSeries Access for Web Client Access Operations Navigator WebSphere Host	 Select, display and manage messages in <u>message queues</u>
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Notes: Commands

IBM eServer iSeries

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.

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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 specificed, 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

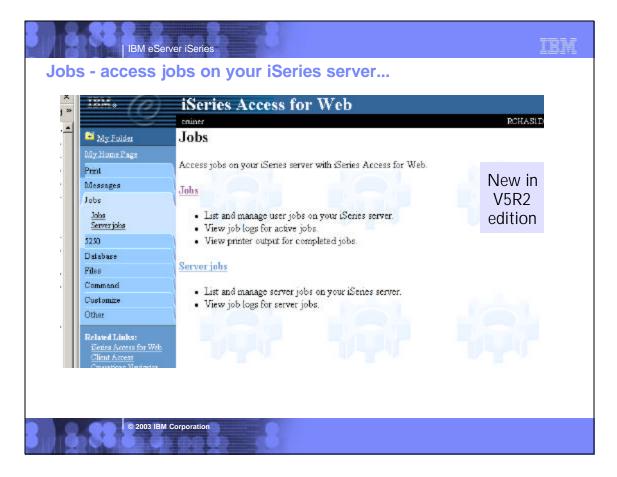
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- o Mail you can e-mail the completion status message to your e-mail address
- o Folder you can save the completion status message in your Personal Folder

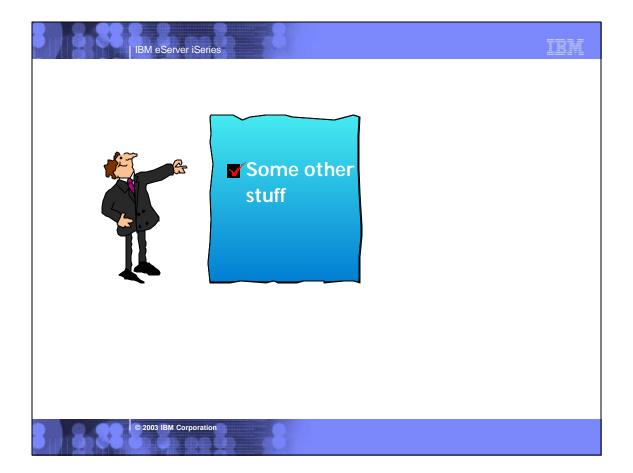
An advantage of sending command completion status as an e-mail attachment or to a Personal folder is that the command is submitted in the background, and the browser page is updated immediately with a message saying the command was submitted. Using these new output options enables users to submit additional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

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What can I run based on my OS/400 Release and Web Server?

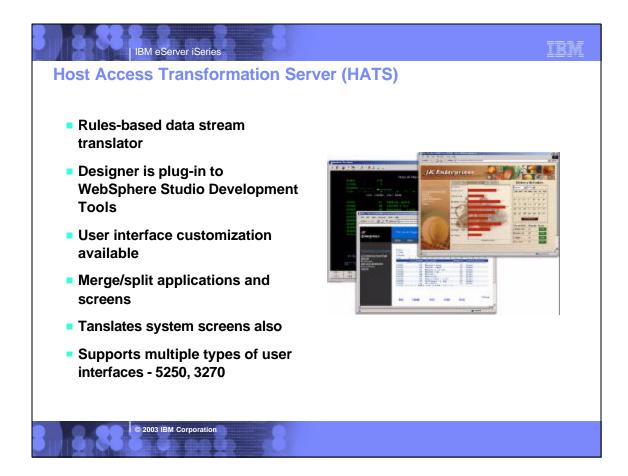
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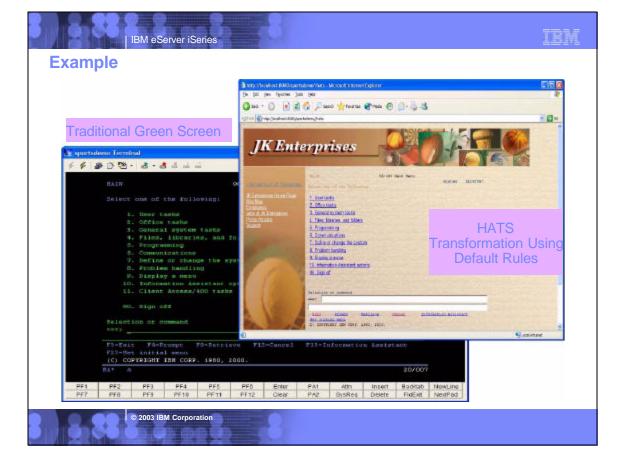
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Tomcat from Apache Software Foundation (ASF)		iSeries Access for Web • 5722-XH2, V5R2	iSeries Access for Web • 5722-XH2, V5R2
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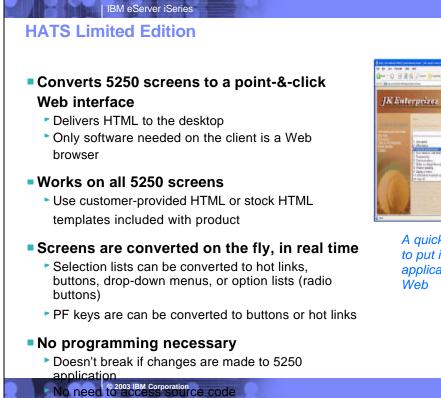


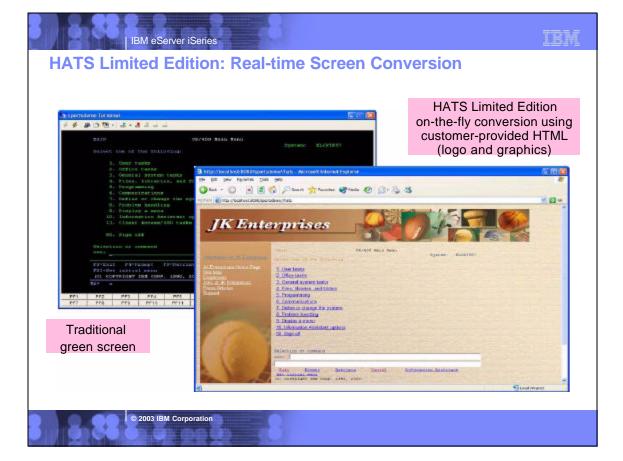












A quick and easy way to put iSeries applications on the Web



