

IBM System i[™]

iSeries Access for Web: Run 5250 in a Browser

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http://www.ibm.com/systems/i/software/access

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Try out iSeries Access for Web for yourself!

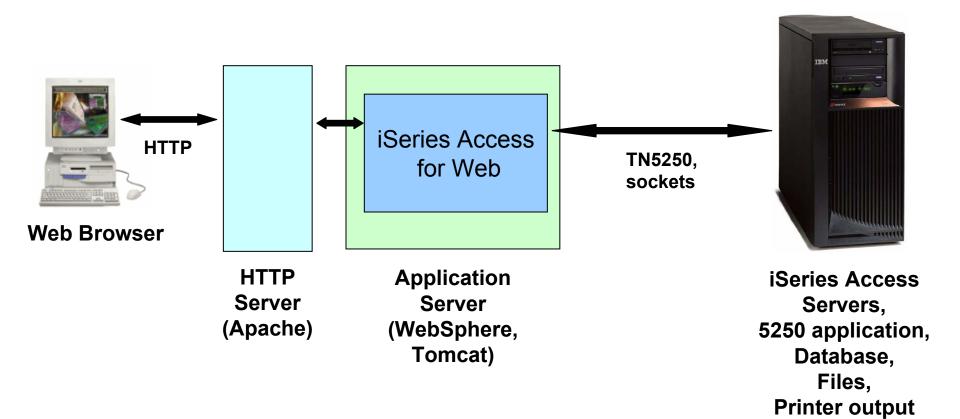
Start your browser and connect to the following web site: http://iseriesd.dfw.ibm.com/webaccess/iWAHome (case sensitive)

User ID = WACUST Password = demo2pwd	This shows the basic look of iSeries Access for Web as we ship it. You can try various functions including working with printer output, creating database requests, etc. Click on the 5250 tab, sign onto the iSeries, then start an RPG application called BOATS and run it.
User ID = BOATADMIN Password = demo2pwd	This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session, or they could have used HATS to run the application. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc

Send email to: LLHIRSCH@us.ibm.com to reset the user profiles on iseriesd.dfw.ibm.com if either one gets disabled.



iSeries Access for Web Overview



iSeries Access for Web 5250 Interface

Runs as an interactive job

 Only function in System i Access for Web that is interactive

TN5250 port

 Only function in System i Access for Web that uses TN5250 port

My Home Page	MAIN	i5/0S Main Men	u		
🗋 My Folder		,	System	: LP016AB	
Print	Select one of the followi	ing:			
Messages	<u>1</u> . User tasks				
Jobs	<u>2</u> . Office tasks 3. General system ta	asks			
5250	4. Files, libraries, an				
Active sessions	 Programming Communications 				
• Configured sessions	7. Define or change	the system			
Start session	 Problem handling Display a menu 				
Database	10. Information Assis				
Files	<u>11</u> , iSeries Access tas	sks			
Command	<u>90</u> . Sign off				
Download	Selection or command				
Customize	===>				
Othe r	Exit Prompt Set initial menu	Retrieve Cancel	Information /	Assistant	
Related Links:	(C) COPYRIGHT IBM CORI	P. 1980, 2005.			
• iSeries Access for Web	37			20,7	
iSeries Access	Attention	Refresh Screen	Field Exit	Page Up	Enter
 iSeries Navigator iSeries Information 	System Request	Stop Session	Reset	Page Down	
Center					
 iSeries Resource Library 	Macros				
clorely	Macro: Shortcut to My mac	cro for *PUBLIC 💌 Play	Macro		
	Start Recording				



Things to know

Because 5250 session is implemented using HTML, considerations to be aware of:

- Not intended to replace full function emulators like PC5250, Host On Demand, etc. for purposes of "heads-down" data entry type of operations
 - Does not include graphics, EHLAPPI, DDE functionality
 - Does not provide keyboard mapping
 - Does not support certain keys the way PC5250 does (ie, Field Exit)
- Does not include Printer Emulation (push to printer)
 - i5/OS strategy is Internet Printing Protocol (IPP) printing
 - iSeries Access for Web provides capability to convert spooled files to PDF
- No direct interaction with server, so unsolicited server messages can't be received.
 - Need to request refresh to see break messages
- Does not include file transfer from session





This is the only 5250 function you will likely extend to your users

Preconfigured Sessions

Run Pre-Configured 5250 Sessions

You can limit users to connecting to only specific systems or running only specific applications.

- Create preconfigured 5250
 sessions
- Then set policies to restrict users to only preconfigured sessions
- User selects 'Configured Sessions'
 - Only link provided
 - User has only one action
 → to start a session

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

iSeries Access for V	/eb			Us	er: adams	System	RCHLAND.IBM.COM	IIM. A
My Home Page Print	Configure	d Sess	ions					
5250 · Active sessions · Configured sessions Files	Session Shortcut to demo Shortcut to Payroll	Action 0	Shortcut Yes Yes	Created By smshao cminer	Access *PUBLIC *PUBLIC			
Related Links: • iSeries Access for Web • iSeries Access • iSeries Information Center • iSeries Resource Library	Shortcuts to session Display a list of shor Active sessions Work with your activ My macros Work with your mac My keypads Work with your keyp 5250 user interface View help for workin	touts to sess re sessions. ros. pads.	ions you con		uts can be o	deleted from th	nis list.	
<u>a</u>							A 1	internet

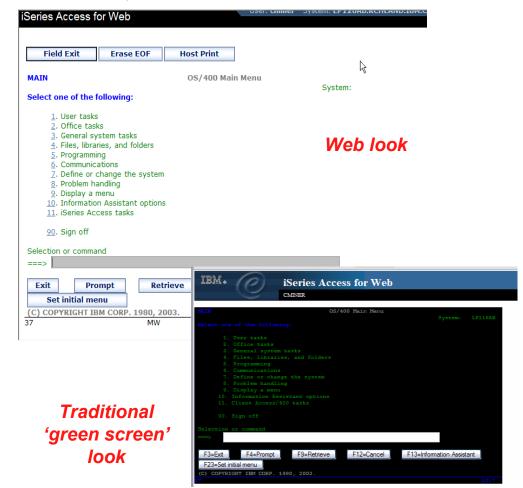


Run Pre-Configured 5250 Sessions

If you do not want users using anything in System i Access for Web except 5250, you could:

- Simply give them the 5250 url address (ie, http://systemi/webaccess/iWA52 50)
- Set policies so users end up where you want them to be
 - Could include a macro so user bypasses i5/OS sign-on screen
- Predefine what screens will look like:
 - Colors
 - No Navigation pane

http://<systemi>:<port>/webaccess/iWA5250







Policies

Policies are used by administrators to control the System i Access for Web functions and behavior

Policies

Only i5/OS user profiles with *SECADM authority can access "Customize → Policies"

iSeries Access fo	or Web		OSCI, CHIHER SYSTEM, EI LZOND.RCHIENIDIDPRCOPI	IBN
My Home Page	Poli	cies	k}	
My Folder Print				
	Profile:	CMINER		
Messages				Access
Jobs	Action	Category	Description	Access
5250	1	5250	5250 user interface custom settings.	Allowed
Database	1	Command	Run batch command custom settings.	Allowed
Files		Customize	Preferences and policy administration custom settings.	Allowed
Command	1	Database	Database tables, requests, and run SQL custom settings.	Allowed
Download		Database	Create and edit database connection definitions.	Allowed
Customize		connections		
• Preferences		Download	Download packages custom settings.	Allowed
• Policies	1	Files	Integrated file system and file share custom settings.	Allowed
• Settings		General	Page layout, language and character set custom settings.	Allowed
Transfer	1	Jobs	Work with jobs custom settings.	Allowed
configuration	1	Mail	Send mail custom settings.	Allowed
Other		Messages	Display messages, send messages, and message queue custom settings.	Allowed
	I	My Folder	My Folder custom settings.	Allowed
Related Links: • iSeries Access for Web	P	Print	Printer output, printers, printer shares and output queue custom settings.	Allowed
• iSeries Access	I	Sametime	Lotus Sametime custom settings.	Allowed
• iSeries Navigator • iSeries Information Center	I	Other	Change password and other miscellaneous custom settings.	Allowed
• iSeries Resource Library	<u>View all</u> View cur	<u>policies</u> rent policy settings f	or all categories.	



View group membership

View current group membership for this user profile.

~

Setting Policies for 5250

When any user attempts to start a 5250 session to i5/OS using System i Access for Web, a check is made to see what policies have been set for this i5/OS user profile prior to displaying any information.

The following sequence of checks are made to authenticate user access:

- User profile
- Group profile
- *PUBLIC profile

 (*every System i Access for Web user is a member of *PUBLIC user group)

iSeries Access for W	/eb	User: CM	IINER System: X1	RCHLAND.IBM.COM	
My Home Page	Edit Policies - 5250				
🗋 My Folder	Eart Foncies - 0200				
Print	Profile: SALES				
Messages					
Jobs	Policy	Derived From 😧	Action 😧	Setting	
5250	5250 access	Shipped default	Use current setting	Allow Y	0
Database	5250 tab	Shipped default	Use current setting	Show Y	0
Files	Start non-configured sessions	Shipped default	Use current setting	Allow	0
Command	Prompt when starting non-configured sessions	Shipped default	Use current setting	Yes Y	0
Download	Show server name in title	Shipped default	Use current setting	Y Yes Y	0
· Preferences	Show configured session name in title	Shipped default			
Policies			Use current setting	V No V	0
Settings	Maximum active sessions	Shipped default	Use current setting	V No maximum V	0
Transfer configuration	Inactive session timeout	Shipped default	Use current setting	V 24 hours V	0
Other	Active sessions list columns	Shipped default	Use current setting	Columns	0
	Configured session to use for defaults	Shipped default	Use current setting	V User defaults V	0
Related Links:	Save settings as user defaults	Shipped default	Use current setting	▼ Allow ▼	0
• iSeries Access for Web	Load settings from user defaults	Shipped default	Use current setting	▼ Allow ▼	0
 iSeries Access iSeries Navigator 	Load settings from shipped defaults	Shipped default	Use current setting	Allow V	0
iSeries Information Center	Switch between Web/Traditional views	Shipped default	Use current setting	▼ Allow ▼	0
iSeries Resource Library	Edit active session settings	Shipped default	Use current setting	✓ Allow ✓	0
uvidiy	Bypass signon	Shipped default	Use current setting	Allow V	0
	Display HTML data in fields	Shipped default	Use current setting	Allow	0

Policy settings to use only Preconfigured sessions

Set all the policies listed below to "deny" in order to limit users to using only preconfigured 5250 sessions.

- Start non-configured sessions
- Create configured session
- Copy configured session
- Delete configured session
- Rename configured session
- Edit configured session
- Create configured session shortcut
- Copy configured session shortcut
- Delete configured session shortcut
- Rename configured session shortcut

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

My Home Page	Configured Sess	ions				
Print						
5250	Session Action 🕢	Shortcut	Created By	Access		
Active sessions Configured sessions	Shortcut to demo	Yes	smshao	*PUBLIC		
Files	Shortcut to Payroll	Yes	cminer	*PUBLIC		
iSeries Access for Web iSeries Access iSeries Navigator iSeries Information	Shortcuts to sessions you configu Display a list of shortcuts to sess Active sessions		figured. Shortc	uts can be o	deleted from thi	is list.

In this example, other policies were also set to remove other functions from the Navigation pane

Policy settings to use only 5250 (no navigation pane)

Here are some policies you could set to enable a user to go directly to a 5250 session and not see anything else in System i Access for Web

- Leave "Start non-configured sessions" on Allow
- Set "Prompt when starting nonconfigured sessions" to No
- In "Configured session to use for defaults", add a previously created Configured session that you have given this user/group profile a shortcut to

To entirely remove the Navigation pane, go to category "General"

– Navigation = Deny

iSeries Access for Web	USEL CHINEL SYSTEM. LE	TEAMPWCHEWID TONIC
Field Exit Erase EOF Host Print		R
MAIN OS/400 Main	n Menu	*//
Select one of the following:	Syste	em:
 User tasks Office tasks General system tasks Files, libraries, and folders Programming Communications Define or change the system Problem handling Display a menu Information Assistant options iSeries Access tasks Sign off 		
Selection or command ===>		
Exit Prompt Retrieve Ca Set initial menu (C) COPYRIGHT IBM CORP. 1980, 2003. (C) COPYRIGHT IBM CORP. 1980, 2003. (C) COPYRIGHT IBM CORP. 1980, 2003.	Informatio	n Assistant
37 MW		20,7

http://<systemi>:<port>/webaccess/iWA5250

Setting Default Session

Select the shortcut to the session to use as the default and apply the policy

My Home Page	Edit Policies - 5250			
🛄 My Folder	Profile: SMSHAO			
Print		-	•	
Messages	Policy	Derived From 😯	Action 😧	Setting
Jobs	5250 access	Shipped default	Use current setting	Allow 🔽
5250	5250 tab	Shipped default	Use current setting	Show 💌
Database	Start non-configured sessions	Shipped default	Use current setting	Allow 💌
Files Command	Prompt when starting non-configured sessions	Shipped default	Use current setting	Yes 💌
Download	Show server name in title	Shipped default	Use current setting	Yes 🔽
Customize	Show configured session name in title	Shipped default	Use current setting	No
Preferences Policies	Maximum active sessions	Shipped default	Use current setting	No maximum 💌
Settings	Inactive session timeout	Shipped default	Use current setting	24 hours
Transfer configuration	Active sessions list columns	Shipped default	Use current setting	Columns
Other	Configured session to use for defaults	Shipped default	Use current setting	User defaults
	Save settings as user defaults	Shipped default	Use current setting	Shortcut to single signon example for SMSHAO
Related Links:	Load settings from user defaults	Shipped default	Use current setting	Shortcut to system A for SMSHAO Shortcut to system B for *PUBLIC
 iSeries Access for Web iSeries Access 	Load settings from shipped defaults	Shipped default	Use current setting	single signon example system A
 iSeries Navigator iSeries Information Center 	Switch between Web/Traditional views	Shipped default	Use current setting	Allow
iSeries Resource	Edit active session settings	Shipped default	Use current setting	Allow 💌
Library	Bypass signon	Shipped default	Use current setting	Allow 💌

_	_	-		_
				_
		_	-	
_		_	_	_
				_

5250 Preferences

My Home Page

Preferences are settings that the user can modify

Edit Preferences - 5250

ing nome i uge	East 1 for off of the			
D My Folder				
Print	Preference	Derived From 😯	Action 😧	Setting
Messages	5250 tab	Shipped default	Use current setting	Show 💌 🕜
Jobs	Prompt when starting non-configured sessions	Shipped default	Use current setting	💌 Yes 💌 🔞
5250	Show server name in title	Shipped default	Use current setting	Yes Y
Database	Show configured session name in title	Shipped default	Use current setting	💌 No 💌 🕜
Files	Active sessions list columns	Shipped default	Use current setting	Columns 😮
Command	Configured sessions		-	
Download	Configured sessions list columns	Shipped default	Use current setting	Columns 😧
Customize	My macros			
 Preferences 	My macros list columns	Shipped default	Use current setting	Columns
Policies	,		ose current setting	
Settings	Save Cancel Apply			
Transfer configuration	Save cancer Apply			
Other	Preferences help			

Preferences help View help for editing preferences.





Starting a 5250 session

How to Start a 5250 Session

Two options:

1. Select 'Start Session'

- Fill in information on Start
 Session and connect
- To save the session, select
 'Active Session Settings' link at
 bottom of screen, modify any
 information you wish, then click
 on 'Save'

2

2. Select 'Configured Sessions'

- Select 'Configure New Session' link on lower screen
- Set up as you wish, then click on 'Save'

Series Access for Web Start Session My Folder Print Server Messages MYISERIES.RCHLAND.IBM.COM Server Jobs Port: 23 5250 Code page: 37 💌 Active sessions Configured sessions 1 Start session Workstation ID Use user ID Database O Specify workstation ID Files Avoid duplicates for this user Command Avoid duplicates with other users Download Customize Other General Initial macro: ~ Bypass signon Related Links: Display HTML data in fields iSeries Access for Web iSeries Access Start Session iSeries Navigator iSeries Information iSeries Resource Library Active sessions Work with your active sessions. Configured sessions

0	iSeries Access : cminer				R	CHLANDI
My Home Page	Configured S	essions				
Print	Session	Server	Action 0	Shortcut	Created By	Access
Messages	Inventory	.RCHLAND.IBM.COM		No	cminer	cminer
Jobs	Payroll	.RCHLAND.IBM.COM		No	cminer	cminer
5250 • Active sessions	Shortcut to demo	.RCHLAND.IBM.COM		Yes	smshao	*PUBLIC
· Configured sessions						
• Start session						
Database	Configure new session					
Files	Configure a new session.					

Work with your configured sessions.

0

0

0

17

Use "Start Session" Dynamically

Me Jol 52

- Specify the system to connect
- Select the session attributes
 - Port, code page, workstation ID, etc.
- Start session

My Home Page	Start Session	
🔲 My Folder		-
Print	Server	•
Messages	Server: mysystem	
Jobs	Port: 23	
5250	Code page: 37 💌	
Active sessions		-
Configured sessions	Workstation ID	•
Start session	Use user ID	
Database	• Specify workstation ID	
Files	Avoid duplicates for this user	
Command	Avoid duplicates with other users	
Download		_
Customize	General	0
Other	Initial macro:	
	Bypass signon	
	Display HTML data in fields	
Related Links:		
 iSeries Access for Web 	Start Session	

iSeries Access

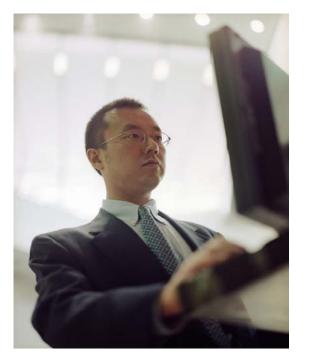


Start a Configured Session

- Configured sessions list shows the list of sessions for the logged in user
- Select the "Start" icon for the session to start

My Home Page	Configur	ed Sessions								
🗀 My Folder	_		\cap	0						
Print	Session	Server		Action 😯	Shortcut	Created By	Access			
Messages	system A	LP016AB.RCHLAND.IBM.COM		D 🛍 🖳 🖉 🖊	No	smshao	smshao			
Jobs	system B	LP016AB.RCHLAND.IBM.COM	ø	D 🛈 🖳 🖉 🖉	No	smshao	smshao			
5250										
Active sessions		Configure new session								
 Configured sessions 	Configure a	Configure a new session.								
Start session		<u>Shortcuts to sessions you configured</u> Display a list of shortcuts to sessions you configured. Shortcuts can be deleted from this list.								
Database	Display a lis	st of shortcuts to sessions you	conti	gurea. Snortcuts (can be delete	ed from this list.				
Files		Active sessions Work with your active sessions.								
Command										
Download	Start sessio Start a new									
Customize										
Other	My macros Work with y	our macros.								
	My keypads Work with y	our keypads.								





Configuration options for 5250 sessions

Configure a New Session

Select the "Configure new session" link

My Home Page	Configu	Configured Sessions							
D My Folder			0						
Print	Session	Server	Action 😧	Shortcut	Created By	Access			
Messages	system A	LP016AB.RCHLAND.IBM.COM	p L û L Z 🖊	No	smshao	smshao			
Jobs	system B	LP016AB.RCHLAND.IBM.COM	a ti 🗊 L 2 🖊	No	smshao	smshao			
5250									
Active sessions		Configure new session							
 Configured sessions 	Configure a	Configure a new session.							
Start session		<u>Shortcuts to sessions you configured</u> Display a list of shortcuts to sessions you configured. Shortcuts can be deleted from this list.							
Database	Display a lis	st of shortcuts to sessions you o	configured. Shortcuts o	can be delete	ed from this list.				
Files		Active sessions Work with your active sessions.							
Command									
Download	Start session Start a new								
Customize									
Other	My macros Work with y	our macros.							
	My keypads Work with y	our keypads.							

Setting up a 5250 Session

Select Session Name

 Name of this 'Configured' session

Determine screen look

- Web View is default
- Traditional View can be selected

Select System i to connect to

- Enter System Name or TCP/IP address
- Port Address

Configure New Sessio	n [X1519P4.RCHLAND.IBM.COM] - Microsoft Internet Explorer	_ 🗆 🔀
	tes Iools Help	
🚱 Back 🔹 🅑 🐇	🖹 🗟 🏠 🔎 Search 📌 Favorites 🕢 🖉 + 🌺 🛛 🛛 🕞 🙏 🗢 📃 🖇	8
My Web Search	P Search ▼ Address 🕘 http://x1519p4.rchland.ibm.com/webaccess/WAConfigSession 🛛 🍡 🔂 Go	Links » 👰 🔹
Google G-	💌 Go 🖟 💋 🚰 👻 🔓 Bookmarks 🛛 🧕 42 blocked 🛛 🍄 Check 🔻 🔨 AutoLink 💌 🔚 AutoFill 🔒 Send to 🕶 🖉	🔘 Settings -
My Home Page	Configure New Session	•
D My Folder	Configure New Session	
Print	General 0	
Messages	Session: * required	Ξ
lobs	Default view: Web	
5250	Initial macro: Traditional	
Active sessions	Bypass signon	
Configured sessions	Display HTML data in fields	
Start session	☑ Enable advanced JavaScript functions	
Database		
Files	Server 0	
Command	Server: X1519P4.RCHLAND.IBM.COM	
Download	Port: 23	
Customize	Code page: 37 🔽	
Other		
	Workstation ID 🛛 🚱	
Related Links: Series Access for Web	Ouse user ID Specify workstation ID Avoid duplicates for this user	
iSeries Access	Avoid duplicates with other users	>
Done	1	nternet

Web View Vs Traditional View

Session D - Accounting - iSeriesD.DFW.IBM.COM [iSeriesD.DFW.IBM.COM] - Microsoft Internet Explorer	
Ele Edit View Favorites Iools Help	
🌀 Badx 🔹 💿 🔹 📓 🐔 🔎 Search 👷 Favorites 🤣 🔗 - چ 📧 - 🛄 😤 🗢 🗮 🖬	8
My Web Search V Address 🗿 http://iseriesd.dfw.ibm.com/webaccess/iWA5250	🗸 🔁 Go 🕴 Links 🎽 🖗 🔻
Coogle 🕞 - 🕜 Go 🖗 🖉 🔸 🏠 Bookmarks - 💁 42 blocked 🛛 🖑 Check 🗸 🔨 AutoLink 👻 🗟 AutoFill 🍙 Send to 🗸 🖉	
MAIN i5/OS Main Menu	
System:	
Select one of the following:	Session D - Accounting - iSeriesD.DFW.IBM.COM [iSeriesD.DFW.IBM.COM] - Microsoft Internet Explorer
1. User tasks	Ele Edit View Favorites Iools Help
2. Office tasks	🚱 Back 🝷 🕑 🕤 🖹 🙆 🏠 🔎 Search 🤺 Favorites 🔣 🍰 🖓 🖉 🚽 📙 🎊 😁 💻 🕨 🗐 🖬
4. Files, libraries, and folders	My Web Search 🗸 Address 🗿 http://iseriesd.dfw.ibm.com/webaccess/iWA5250?view=0&syncid=1182093272 🗸
	Google G - 🗸 Go of a to - 🖉 Bookmarks - 🧕 42 blocked 45 Check - 🔨 AutoLink - 🔚 AutoFill 🎍 Send to - 🖉
6. Communications	User: wuser System: iSeriesD.DFW.IBM.CO
8. Problem handling	iSeries Access for Web
9. Display a menu	My Home Page
10. Information Assistant options 11. iSeries Access tasks	My Folder MAIN i5/OS Main Menu System: ISERIESD
11. ISENES ACCESS LASKS	Print Select one of the following:
90. Sign off	Messages 1. User tasks
Selection or command	2. Office tasks
	5250 • Active sessions 4. Files, libraries, and folders
	Configured sessions 6. Communications
F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information	tion Assistant Start session
F23=Set initial menu	Database 8. Problem handling Filos 9. Display a menu
(C) COPYRIGHT IBM CORP. 1980, 2005.	10. Information Assistant options
1123 MW	
	Download 90. Sign off
	Other Selection or command
	Polated Links: F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
	F23=Set initial menu
	Web (C) COPYRIGHT IBM CORP. 1980, 2005.
	· iSeries Access 1123 MW 20,1



Bypass Signon – new in V5R4

- Uses the credential the user used to login to System i Access for Web
- Option available for configured and dynamically started session

My Home Page	Configure New Session
🗋 My Folder	General
Print	General Session: * required
Messages	
Jobs	Default view: Web
5250	Initial macro:
Active sessions	Bypass signon
 Configured sessions 	Display HTML data in fields
Start session	Enable advanced JavaScript functions
Database	
Files	Server
Command	Server: mysystem
Download	Port: 23
Customize	Code page: 37 💌
Other	
	Workstation ID
	OUse user ID
Related Links:	Specify workstation ID
 iSeries Access for Web iSeries Access 	Avoid duplicates for this user
iSeries Navigator	Avoid duplicates for this user
· iSeries Information	Avoid duplicates with other dsers

QRMTSIGN system value must be set to *VERIFY to allowe the 'Bypass Signon' feature to be accepted by i5/OS.

Configuring a New Session – Workstation ID

Workstation ID

OUse user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

Use user ID	System i Access for Web authenticated user ID is used for the workstation ID, up to ten characters.
Specify workstation ID	Enter a workstation ID of your choice, up to ten characters. If you select the radio button and leave the text field blank, a value is generated by i5/OS. The default device name starts with <i>QPADEV</i> .
Avoid duplicates for this user:	When this option is enabled, a wild card character is added to the device name to make it unique for the current user.
Avoid duplicates with other users:	When this option is enabled, the server adds a wild card character to the device name to make it unique for all users on the server.



Workstation ID

You can enter keyword and special characters, like you do for PC5250. Here is how they are handled.

Computer name or User name (&COMPN, &USERN): These keywords are accepted.

- However, they will not resolve to the PC name and the Windows login user ID like they do in PC5250
- Computer name: resolved to the System i name
- User name: resolved to the user profile name of the web application server job.
- Also note that using the &COMPN and &USERN keywords could result in workstation IDs that are longer than ten characters which would then be truncated.

Session Type ID (%):

- This will add an "S" to workstation ID, indicating that this is a display session.
- With PC5250, a "P" would replace the "%" if a printer session was started. However, System i Access for Web only has display sessions.



Workstation ID (continued)

Keyword and special characters, continued...

Short session ID (*): Adding this character will make the ID unique for this user.

- The System i Access for Web option **Avoid duplicates for this user** causes the "*" character to be added at the end of the ID.
- Therefore, if you use both the "*" and Avoid duplicates for this user, then two special characters will be added to the workstation ID.

Collision Avoidance ID (=): Adding this character will make the session ID unique.

- The System i Access for Web option Avoid duplicates with other users causes the "=" character to be added at the end of the string.
- Therefore, if you use both the "=" and Avoid duplicates with other users, then two "=" will be added to the string..

Configuring a New Session (continued)

Web View and Traditional View settings

- Many keyboard and screen settings can be set to improve end user productivity and satisfaction
- Can also set up different text colors

Create a consistent 'look' for all your users...

v	I	e	w	

Web Show navigation bar Show action links Show hotspot links Show JavaScript indicator Display text using fixed width Enable "More..." as button Enable menu items as links Show function key bar Show macros section Show operator information are Show active sessions Enable cursor positioning Position cursor at exact location Enable message text line as hel Enable active function keys as buttons

Show function key text (Fxx=) on button

	0
	Traditional
	Show navigation bar
	Show action links
	Show hotspot links
	Show JavaScript indicator
font	Display text using fixed width font
	Enable "More" as button
	Enable menu items as links
	Show function key bar
	Show macros section
ea (OIA)	Show operator information area (OIA)
	Show active sessions
	Enable cursor positioning
ion	Position cursor at exact location
elp link	Enable message text line as help link

Enable active function keys as buttons

Foregrou 5250	nd colors Browse		Foregrou 5250	nd colors Browse	
Black:	Black	~	Black:	Black	~
Blue:	Blue	~	Blue:	Blue	~
Green:	Green	~	Green:	Green	~
Cyan:	Teal	~	Cyan:	Teal	~
Red:	Red	~	Red:	Red	~
Magenta:	Fuchsia	~	Magenta:	Fuchsia	~
Brown:	Yellow	~	Brown:	Yellow	~
White:	Gray	~	White:	White	~
Operator Color: Bla		tion area (OIA)	Operator Color: Blu		tion area (OIA)
Backgrou The brows		s round color <mark>i</mark> s used.	Backgrou Color: Bla		s
Save	Can	cel Save As	Defaults	Loz	d Defaults

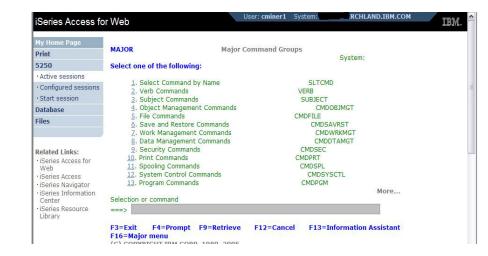
Example: 5250 - Proportional Width vs. Fixed Width

Default for 'Web View' is to display output using Proportional width fonts

To change to Fixed width fonts, check the box that says:

 Display text using fixed width fonts

Users can also do this on-the-fly by clicking on the "Active session settings" link and change the setting for this connection, or by switching to Traditional view.



My Home Page Print	MAJOR Major Command Groups	System:
5250	Select one of the following:	
• Active sessions	1. Select Command by Name	SLTCMD
Configured sessions	2. Verb Commands	VERB
• Start session	3. Subject Commands	SUBJECT
Database	4. Object Management Commands	CMDOBJMGT
Files	5. File Commands	CMDFILE
riles	6. Save and Restore Commands	CMDSAVRST
	 Work Management Commands 	CMDWRKMGT
	8. Data Management Commands	CMDDTAMGT
Related Links:	9. Security Commands	CMDSEC
 iSeries Access for 	11. Spooling Commands	CMDSPL
Web	12. System Control Commands	CMDSYSCTL
· iSeries Access	13. Program Commands	CMDPGM
 iSeries Navigator iSeries Information 		More
Center	Selection or command	
· iSeries Resource Library	===>	

Fonts

System i Access for Web 5250 is rendered with HTML

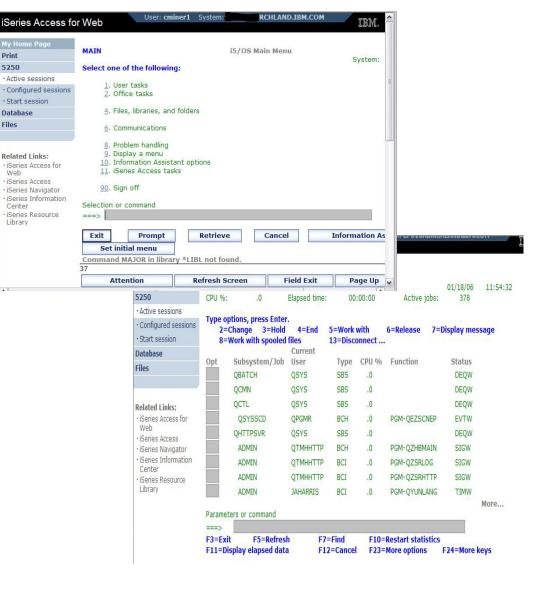
- Fonts are controlled by the browser
- Use browser options to change the font style and font size

Enable Active Function Keys As Buttons

Defaults:

- Display Active
 Function Keys as
 Buttons
- Show More... as a button

Can uncheck these boxes to deliver a more traditional view





Setting User Defaults

"Save As Default" saves this session configuration as the default for the current user.

Can be performed from active session settings or configured session settings.

Foregrou	ind colors		Foregrou	ind colors
5250	Browser		5250	Browser
Black:	Black 🚺	•	Black:	Black 💌
Blue:	Blue	•	Blue:	Blue 💌
Green:	Green	•	Green:	Green 💌
Cyan:	Teal 💽	•	Cyan:	Teal 💌
Red:	Red	•	Red:	Red 💌
Magenta:	Fuchsia	•	Magenta:	Fuchsia 💌
Brown:	Yellow	•	Brown:	Yellow 💌
White:	Gray	•	White:	White 💌
Operator Color: Bl		on area (OIA)	Operator Color: B	information area (OIA) ue
	und colors er backgrou	und color is used.	Backgrou Color: Bi	ack
Save	Cancel	Save As Defaults	De	faults Load Shipped Defaults

5250 user interface help

View help for editing a configured session.

Configured Session Actions

My Home Page	Configured Sess	ions				
🗀 My Folder						
Print	Session	Server	Action 🕄	Shortcut	Created By	Access
Messages	Shortcut to system A	LP016AB.RCHLAND.IBM.COM	a 6 û 5	Yes	smshao	smshao
Jobs	Shortcut to system B	LP016AB.RCHLAND.IBM.COM	/ L	Yes	smshao	*PUBLIC
5250	system A	LP016AB.RCHLAND.IBM.COM	/ L 🛈 L 🖉	No	smshao	smshao
Active sessions	system B	LP016AB.RCHLAND.IBM.COM	. L Î L Z 🏼	No	smshao	smshao
Configured sessions						

Start	Start the configured session
Сору	Make a copy of the configured session for yourself
Delete	Delete the configured session
Rename	Rename the configured session
Create Shortcut	Share the configured session with another user or group of users
Edit	Change the configured session settings



Creating Shortcuts to your configured sessions



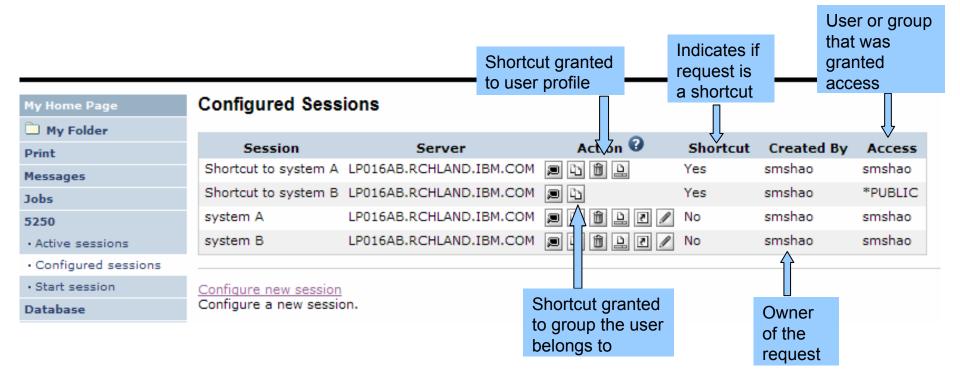


Shortcuts

- Shortcut is a pointer to a System i Access for Web object
 - Configured 5250 session
 - Database request
 - Shortcuts to an object are deleted when the object is deleted
- The objects is only accessible to the user that created it
- Can share the object with other users
 - Create shortcut for user or group to share with user or group
- User of the shortcut has read only access to the object
 - Cannot modify or delete the object



Shortcut Example



Create 'Shortcuts' to Configured Sessions

Your Configured Session

-Create 'Shortcuts' for other users

Can set Policies

-To restrict what users can do with your shortcut.

-Do not allow users to:

- Copy your shortcut
- Delete your shortcut
- Rename your shortcut

EX. O	iSeries Access	s for Web				RCHLAND.IB
My Home Page 표 My Folder	Configured	Sessions		2		
Print	Session	Server	Action	Shortcut	Created By	Access
Messages	Inventory	.RCHLAND.IBM.COM		No	cminer	cminer
Jobs	Payroll	.RCHLAND.IBM.COM		No	cminer	cminer
5250	Shortcut to demo	.RCHLAND.IBM.COM		Yes	smshao	*PUBLIC
• Active sessions				207/53		
· Configured sessions	÷			J		
• Start session						

IBM.	iSeries Access for Web
My Home Page	Create Shortcut
🖭 My Folder	oreate onoricut
Print	Create shortcut to "Inventory "
Messages	
Jobs	Shortcut name: Shortcut to Inventory
5250	Access: Add
• Active sessions	
• Configured sessions	Create Shortcut
Start session	
Database	
Files	Access Details
Command	 The access value identifies who is able to access the shortcut.
Download	 The access value identifies who is able to access the shortcut. The access value can be an existing user profile name on the iSeries server, an existing group profile
Customize	name, or *PUBLIC.
Other	 To specify multiple profiles, separate entries with commas.

Finding Shortcuts You Created

My Home Page	Configured Sess	ions				
🗀 My Folder			-			
Print	Session	Server	Action 😧	Shortcut	Created By	Access
Messages	Shortcut to system A	LP016AB.RCHLAND.IBM.COM	P 4 1 1	Yes	smshao	smshao
Jobs	Shortcut to system B	LP016AB.RCHLAND.IBM.COM	P 4	Yes	smshao	*PUBLIC
5250	system A	LP016AB.RCHLAND.IBM.COM	a d û l Z 🖊	No	smshao	smshao
Active sessions	system B	LP016AB.RCHLAND.IBM.COM	/ L D L Z	No	smshao	smshao
Configured sessions						
Start session	Configure new session					
Database	Configure a new session	on.				
Files	Shortcuts to sessions y					
Command	Display a list of shortci	uts to sessions you configured.	Shortcuts can be dele	ted from this	s list.	

Click the "Shortcuts to sessions you configured" link

IBM System i



Managing Shortcuts You Created

- List of shortcuts you created
- Delete shortcuts you created

My Home Page	Shortcut	ts to Sessions Yo	ou Confi	gured
🗋 My Folder	a a a r	1] ▶ ≫ ▶ Q		
Print	L			
Messages	Session	Shortcut	Access	Action
Jobs	system A	Shortcut to system A	smshao	Û
5250	system B	Shortcut to system B	*PUBLIC	Û
Active sessions	DE ZE AL T	1] ▶ ≫ ⊮ Q		
 Configured sessions 	n vi vi L	T]		
Start session				





Creating Macros

Shortcuts to Macros

Adding Macros to Preconfigured Sessions

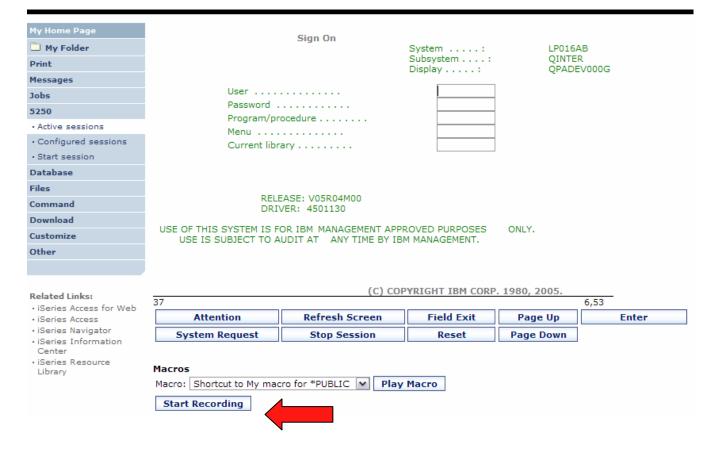


Macros

Behave differently than PC5250

- Keys processed on a screen by screen basis
 - PC5250 every key is recorded and played back
 - System i Access for Web cursor positioned in field and keys entered into field
- On a given screen, keys may not be processed in the same order as they are entered
- Functionally equivalent, but behaves differently

Recording Macros



Stop Recording

My Home Page		Sign On					
🛄 My Folder		-	System:	LP016AB			
Print			Subsystem : Display :	QINTER OPADEV000	G		
Messages							
Jobs	User						
5250	Password	edure					
Active sessions	Menu						
Configured sessions	Current librar						
Start session							
Database							
Files							
Command		SE: V05R04M00 R: 4501130					
Download							
Customize	USE OF THIS SYSTEM IS FOR USE IS SUBJECT TO AUD	LIBM MANAGEMENT APPR		ONLY.			
Other							
Related Links:	37	(C) COP	<u>YRIGHT IBM CORP.</u> R	<u>1980, 2005.</u> 6,53	_		
 iSeries Access for Web iSeries Access 	Attention	Refresh Screen	Field Exit	Page Up	Enter		
iSeries Navigator	System Request	Stop Session	Reset	Page Down			
 iSeries Information Center 	System Request	Stop Session	Reset	Page Down			
iSeries Resource							
Library	Macros						
,	Macro: Shortcut to My macro for *PUBLIC 💌 Play Macro						
	Stop Recording Pause	Recording					
	Stop Recording Tudge	Recording					



Naming the Macro

My Home Page	Save Macro
🛄 My Folder	
Print	Macro: my login macro
Messages	Replace if already exists
Jobs	Save Macro Cancel
5250	Save hacro cancer
Active sessions	
 Configured sessions 	
Start session	
Database	
Files	
Command	
Download	
Customize	
Other	

Playing Macro

My Home Page My Folder Print Messages Jobs 5250 · Active sessions · Configured sessions · Start session Database Files Command Omyload	Password . Program/pro Menu Current libra RELE DRIV		System: Subsystem: Display:	LP016A QINTE QPADE	R
Customize Other	USE IS SUBJECT TO A	UDIT AT ANY TIME BY IBM	1 MANAGEMENT.		
Related Links: • iSeries Access for Web • iSeries Access	37 Attention	(C) COP	YRIGHT IBM CORP	. 1980, 2005. Page Up	6,53
 iSeries Navigator 	System Request	Stop Session	Reset	Page Down	
 iSeries Information Center iSeries Resource 					
Library	Macros				
	Macro: my login macro	✓ Play	Macro		
	Start Recording				

Managing Macros

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library
- 37 6,53 Attention Refresh Screen Field Exit Page Up Enter System Request Stop Session Reset Page Down Macros Macros Play Macro

(C) COPYRIGHT IBM CORP. 1980, 2005.

Start Recording	
-----------------	--

<u>Traditional view</u> Switch this session to traditional view.

Active session settings Change the settings for this session.

Active sessions Work with your active sessions.

Configured sessions Work with your configured sessions.

My macros Work with your macros.



My keypads Work with your keypads.

5250 user interface help View help for using the 5250 user interface.

My Macro List \rightarrow Edit Macro

My Home Page	My Macros
🗋 My Folder	
Print	
Messages	Macro Action 🤣 Shortcut Created By Access
Jobs	my login macro 🗈 🛍 🖳 🖉 No smshao smshao
5250	Shortcut to My macro
Active sessions	
Configured sessions	
Start session	
Database	Active sessions
Files	Work with your active sessions.
Command	Shortcuts to macros you recorded
Download	Display a list of shortcuts to macros you recorded. Shortcuts can be deleted from this li
Customize	<u>Configured sessions</u> Work with your configured sessions.
Other	Start session
	Start a new session.



Single Sign On with Macro

- Create a macro to login to 5250
 - Using your own user ID and password
- Edit the macro and replace your user ID and password with directives to use the user's login
- Share the macro (create shortcut) with the user or group
- Associate the macro with a session so the macro is executed when the session starts
- Share the session (create shortcut) with the user or group

Editing a Macro

This macro was created to bypass the i5/OS sign-on screen and to put the user directly into an RPG application called BOATS.

> Note that the user
> ID and password are listed in clear text.

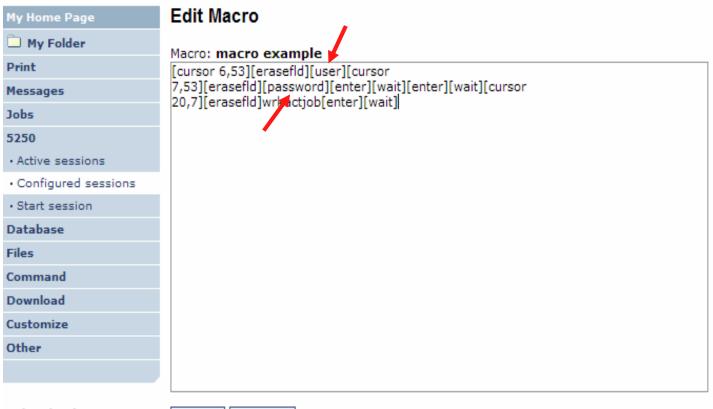
	Google G-	📉 Go 🗄 🐼 🗲 🗧 🚼 Bookmarks 🗸 🥸 42 blocked 🛛 💝 Check 👻 🔦 AutoLink 👻 🔚 AutoFill 🎍 Send to 🗸 🖉
	iSeries Access fo	r Web User: CMINER System: X1519P4.RCHLAND
	My Home Page	Edit Macro
:h	🗅 My Folder	
•••	Print	Macro: Signon Boats
	Messages	[cursor 7,53][erasefld]pw12345678pw[cursor 6,53][erasefld]caroleminer[enter]
	Jobs	[wait][enter]][wait][cursor 20,7][erasefid]boats/boats[enter][wait]
	5250	
	Active sessions	
	 Configured sessions 	
	Start session	
	Database	
	Files	
	Command	
	Download	
sel	Customize	
d	Other	
o r		
ar	Related Links: • iSeries Access for Web • iSeries Access	Save Cancel
	· iSeries Navigator · iSeries Information Center	
	🕘 Done	

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Edit Macro

Replace the recorded user ID with [user] Replace the recorded password with [password]



Cancel

Save

Related Links:

· iSeries Access for Web

Supported Commands for Macros

The supported cursor positioning commands are:

General macro commands [attn] - Attention [altview] - Alternate View [backspace] - Backspace [backtab] - Backtab [bof] - Beginning of field
[clear] - Clear [down] - Cursor down [left] - Cursor left [right] - Cursor right [cursel] - Cursor select [up] - Cursor up [delete] - Delete character [dspsosi] - Display SO/SI [dup] - DUP field [enter] - Enter [eof] - End of field [eraseeof] - Erase EOF [erasefld] - Erase field [erinp] - Erase input [fldext] - Field exit [fieldmark] - Field mark [field-] - Field minus [field+] - Field plus

General macro commands... [pf1] - F1 [pf12] – F12 [pf2] - F2 [pf13] – F13 [pf3] - F3 [pf14] – F14 [pf4] - F4 [pf15] – F15 [pf5] - F5 [pf16] – F16 [pf17] – F17 [pf6] - F6 [pf18] – F18 [pf7] - F7 [pf19] – F19 [pf8] - F8 [pf9] - F9 [pf20] – F20 [pf10] - F10 [pf21] – F21 [pf11] - F11 [pf22] – F22 [help] - Help [pf22] – F23 [pf24] – F24 [home] – Home insert] - Insert [newline] - New line [pa1] - PA1 [pa2] - PA2 [pa3] - PA3 [pageup] - Page up [pagedn] - Page down [reset] - Reset [sysreq] - System request [tab] - Tab field

Bi-directional text support commands

[base] - Base [close] - Close [fldrev] - Field reverse [latinlayer] - Latin layer [screenrev] - Screen reverse

Other macro commands

[cursor row,column] - Locate cursor at specified row and column. Row and column must be numbers. [password] – authenticated password [pause] - Pause 1 second [pause n] - Pause n seconds [user] – authenticated user-ID [wait] - Wait for input

_	_	_	_	-
-	_	_	-	
		_	=	

Sharing a Macro

My Home Page	My Macros	Create s	hortcut			
🗅 My Folder	≪ ≪ [1] ▶ ≫ ▶	0				
Print						
Messages	Macro	Action 🕗	Shortcut	Created By	Access	
Jobs	my login macro	4 🛈 🔔 🗹 🖊	No	smshao	smshao	
5250	Shortcut to My macro	Ω	Yes	aliciam	*PUBLIC	
Active sessions						
Configured sessions	≪ ≪ [1] → ≫ >	Q				
Start session						
Database	Active sessions					
Files	Work with your active a	sessions.				
Command	Shortcuts to macros yo					all's the
Download	Display a list of shortcu	its to macros you i	ecorded. Sh	ortcuts can be o	deleted fron	n this list.
Customize	Configured sessions Work with your configu	red sessions				
Other		ineu sessions.				
	<u>Start session</u> Start a new session.					

IBM System i

		- A. A.	
_		_	
	_		the second se
			2 1 B 4
		_	- 1
	_		
		_	

Add a macro to a New Session

iSeries Access for W	/eb	User: CMINER System: X15	
My Home Page	Configure New Session		
Print Messages Jobs 5250 • Active sessions • Configured sessions • Start session Database Files Command	General Session: Sales Info * required Default view: Web Initial macro: Bypass sig iSeries Access Tasks Display HT Office Tasks Display HT Enable advanced JavaScript functions Server	0 	All macros you have created will appear in pull-down
Download Customize Other	Server: X15.ibm.com Port: 23 Code page: 37	My Home Page	Configure New Session
Related Links: · iSeries Access for Web · iSeries Navigator · iSeries Information Center · iSeries Resource Library	Workstation ID Use user ID Specify workstation ID Avoid duplicates for this user Avoid duplicates with other users	My Folder Print Messages Jobs 5250 Active sessions Configured sessions Start session Database Files	General ? Session: single signon example * required Default Web * Initial macro: Shortcut to macro example for smshao * Bypass signon Display HTML data in fields * Enable advanced JavaScript functions * *
		Command Download Customize Other	Server ? Server: mysystem Port: 23 Code page: 37 ?

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Share the Session / Share the Macro

My Home Page	Create Shortcut			By giving a user
🗀 My Folder	Create shortcut to "single si	anon example"		
Print	Create shortcut to single si	gnon example		or group profile
Messages	Shortcut name: Shortcut to	single signon example]	access via
Jobs	Access: smshao		Add	
5250				'Create Shortcut'
Active sessions	Create Shortcut			
 Configured sessions 				
Start session	Access Details			
Database				
Files		ntifies who is able to access the s	shortcut. e on the iSeries server, an existing grou	in profile name, or *PUBLIC
Command		rofiles, separate entries with com		p prome name, or reperer
Download				
Customize				
Other	Configured sessions			
	Work with your configured s	essions.		
	My Home Page	Create Shortcut		
	🛅 My Folder	Create shortcut to "macro exa	mple"	
	Print			

Messages	Shortcut name: Shortcut to macro example
Jobs	Access: smshao Add
• Active sessions	Create Shortcut
Configured sessions	
Start session	Access Details
Database	
Files	 The access value identifies who is able to access the shortcut. The access value can be an existing user profile name on the iSeries server, an existing group profile name, or *PUBLIC.
Command	 To specify multiple profiles, separate entries with commas.
Download	
Customize	
Other	<u>My macros</u> Work with your macros.



Starting the Session

Configured Sessions

My Folder			0			
Print	Session	Server	Action 😧	Shortcut	Created By	Access
Messages	Shortcut to single signon example	lp016ab.rchland.ibm.com	, ti ti ti		hao	smshao
Jobs	Shortcut to system A	LP016AB.RCHLAND.IBM.COM	, L) 🛈 🔔	Yes	smshao	smshao
5250	Shortcut to system B	LP016AB.RCHLAND.IBM.COM	🗩 🗅	Yes	smshao	*PUBLIC
Active sessions	single signon example	lp016ab.rchland.ibm.com	/ L û L /	No	smshao	smshao
Configured sessions	system A	LP016AB.RCHLAND.IBM.COM	, L û L Z 🖊	No	smshao	smshao
Start session	system B	LP016AB.RCHLAND.IBM.COM	P L Û L Z 🖊	No	smshao	smshao
Database						
Files	Configure new session					
Command	Configure a new session.					
Download	Shortcuts to sessions you configure					
Customize	Display a list of shortcuts to session	s you configured. Shortcuts ca	n be deleted from this	list.		
Other	Active sessions					
	Work with your active sessions.					
	<u>Start session</u> Start a new session.					
Related Links:						

IBM System i



Start Session Result

- User is taken directly to the application
- 5250 session is logged in using the user's ID and password

12						
iSeries Access fo	or Web	User: CMINER	System: X1519P4	RCHLAND.IBM.COM	IBM.	^
Idenes Access in						
My Home Page						
🗅 My Folder		AS/400 WSG Boat Demo	6/19/07 6:13:34			
Print	Enter your search parameters					
Messages	Туре	P=Powered, S=Sailing, T=Tug, C=C	ommercial, A=All			=
Jobs	Length (feet)	feet to start from				
5250	Year built	year to start from				
Active sessions						
Configured sessions						
Start session						
Database						
Files						
Command						
Download						
Customize						
Other						
Related Links:						
• iSeries Access for Web	End					
· iSeries Access	37		4,22	-		
iSeries Navigator	37		4,22		<u></u>	~
				2 C C C C C C C C C C C C C C C C C C C	Internet	



Managing Macro Shortcuts

Shows all macros I have created, plus shortcuts

My Home Page	My Macros				
🗀 My Folder		0			
Print		* E			
Messages	Macro	Action 😧	Shortcut	Created By	Access
Jobs	my login macro	ù û l Z 🖊	No	smshao	smshao
5250	Shortcut to My macro	ι - C	Yes	aliciam	*PUBLIC
Active sessions		_			
 Configured sessions 		Q			
Start session					
Database	Active sessions				
Files	Work with your active s	essions.			
Command	Shortcuts to macros yo		warded Ch		J
Download	Display a list of shortcu	ts to macros you r	ecorded. Sh	ortcuts can be (deleted from
Customize	Configured sessions Work with your configu	red sessions			
Other		100 303310113.			
	<u>Start session</u> Start a new session.				



Macro Shortcut List

Shows just shortcuts I have created

My Home Page	Shortcuts to Macros Yo	u Recorde	ed	
🗋 My Folder	≪ ≪ [1] ▶ ≫ ▶ Q			
Print				
Messages	Macro Shor	tcut	Access	Action
Jobs	my login macro Shortcut to my	y login macro	smshao	Û
5250				
Active sessions				
 Configured sessions 				
Start session	My macros Work with your macros.			
Database				
Files	Active sessions Work with your active sessions.			
Command	Configured sessions			
Download	Work with your configured session	ons.		
Customize	Start session			
Other	Start a new session.			
	<u>My keypads</u> Work with your keypads.			





Active Sessions

Active Session

- An active session is a session that has been started
 - Dynamically or configured session
- A user may have more than one active session

iSeries Access for W	/eb		User: CMINER	System: X15		
My Home Page	Active Sessio	ns				
🗎 My Folder		Contra 4				
Print	Server	Session	Started	Last Accessed	View	Action 0
Messages	X15	B - Sales		3/27/07 2:00:54 PM CDT		22/0
Jobs	X15	A - Inventory		3/27/07 2:00:24 PM CDT	-	72/0
5250	A13	A - Inventory	5/2//07 1.35.30 PH CD1	5/2//0/ 2:00:24 /// 001	Web	<u>~</u> 10 // 10
Active sessions						
Configured sessions	19-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				1	L L
Start session	View-only sessions					
Database	Display a list of active sess	sions others are sha	aring with me.			
Files	Supervised in strategies					
Command	Shared sessions Display a list of active sess	ions I am sharing v	with others.	R	eco	nnec
Download						
Customize	Configured sessions	12				
Other	Work with your configured	sessions.				
	<u>Start session</u> Start a new session.					
Related Links: • iSeries Access for Web • iSeries Access	<u>My macros</u> Work with your macros.					
 iSeries Navigator iSeries Information Center 	<u>My keypads</u> Work with your keypads.					
 iSeries Resource Library 	5250 user interface help View help for working with	active sessions.				
X						Internet

Active Session Life Span

- Session resides on the server, not the workstation
- Session remains active until
 - User ends (stops) the session, or
 - Session time out due to inactivity
 - Time out value is configurable through Access for Web

My Home Page	Active Sessions					
🗀 My Folder						•
Print	Server	Session	Started	Last Accessed	View	Action 😧
Messages	LP016AB.RCHLAND.IBM.COM	A	3/7/06 3:55:13 PM CST	3/8/06 10:44:29 AM CST	Web	7 9 / 8
Jobs						
5250	View-only sessions		ale a de la coltita de la			
Active sessions	Display a list of active sessions	others are	snaring with me.			
 Configured sessions 	Shared sessions Display a list of active sessions	I am char	as with others			
Start session		1 am shan	ng with others.			
Database	Configured sessions Work with your configured sess	ions.				
Files						
Command	Start session Start a new session.					
Download	Mummere					
Customize	My macros Work with your macros.					
Other	My keypads					
	Work with your keypads.					
Related Links: • iSeries Access for Web	5250 user interface help View help for working with activ	ve sessions				

Taking advantage of active session behavior

- Leave the session and browse on the web, or
- Leave your workstation and go to another workstation and
- Reconnect to your session



Ending a Session

Closing the browser or turning off the workstation does not end the session

- Two ways to end a session
 - From an active session
 - From active session list
- Properly cleaning up TN5250 connection
 - Frees up resources in application server (Access for Web)
 - Frees up resources on target server (TN5250)

Ending a Session from Active Session

My Home Page My Folder Print		Sign On	System: Subsystem: Display:	LP016A QINTEF QPADE	ર
Messages Jobs 5250 • Active sessions • Configured sessions • Start session	Password . Program/pro Menu	ocedure			
Database Files Command Download Customize Other	DRIV	ASE: V05R04M00 /ER: 4501130 DR IBM MANAGEMENT APPF JDIT AT ANY TIME BY IB!		ONLY.	
Related Links: • iSeries Access for Web	37	(C) COP	YRIGHT IBM CORP	. 1980, 2005.	6,53
 iSeries Access iSeries Navigator iSeries Information Center 	Attention System Request	Refresh Screen Stop Session	Field Exit Reset	Page Up Page Down	Enter
		End this	active ses	sion	

Ending a Session from Active Session List

My Home Page	Active Sessions					
D My Folder						0
Print	Server	Session	Started	Last Accessed	View	Action 😯
Messages	LP016AB.RCHLAND.IBM.COM	А	3/7/06 3:55:13 PM CST	3/8/06 12:58:01 PM CST	Web	77/2
Jobs						
5250	View-only sessions		- L C			
Active sessions	Display a list of active sessions	s others are	e sharing with me.			
Configured sessions	<u>Shared sessions</u> Display a list of active sessions		ing with others			
Start session		s I am shar	ing with others.			
Database	Configured sessions Work with your configured sess	sions			E	nd sessio
Files		3101131				
Command	Start session Start a new session.					
Download						
Customize	My macros Work with your macros.					
Other	My keypads					
	Work with your keypads.					
	5250 user interface help					
Related Links:	View help for working with activ	ve sessions				



Changing Active Session Settings

Does not affect the configured session settings

- The changes are tied to the running instance of the session
- Changes only affect how this particular active session behaves

Some settings are not modifiable

- Server name
- Port
- Code page
- Workstation ID
- Default view (web or traditional)
- Initial macro _

Command Download Customize Other	RELEASE: V05R04M00 DRIVER: 4501130 USE OF THIS SYSTEM IS FOR IBM MANAGEMENT APPROVED PURPOSES ONLY. USE IS SUBJECT TO AUDIT AT ANY TIME BY IBM MANAGEMENT.						
Related Links:	(C) COPYRIGHT IBM CORP. 1980, 2005. 37 6,53						
iSeries Access	Attention	Refresh Screen	Field Exit	Page Up	Enter		
 iSeries Navigator iSeries Information 	System Request	Stop Session	Reset	Page Down			
Center • iSeries Resource Library	Macros Macro: Shortcut to My macro for *PUBLIC V Play Macro Start Recording Traditional view Switch this session to traditional view. Active session settings Change the settings for this session.						

Active Session - Web View

My Home Page	MAIN	i5/OS Main Men							
My Folder			System	1: LP016AB					
Print	Select one of the following	ng:							
Messages	<u>1</u> . User tasks								
Jobs	2. Office tasks 3. General system tasks 4. Files, libraries, and folders								
5250									
Active sessions	 Programming Communications 								
Configured sessions Start session	Z. Define or change the system 8. Problem handling								
Database	9. Display a menu 10. Information Assistant options								
Files	11. iSeries Access tas	sks							
Command	<u>90</u> . Sign off								
Download	Selection or command								
Customize	===>								
Other	Exit Prompt Retrieve Cancel Information Assistant								
	Set initial menu	1080 2005							
Related Links:	(C) COPYRIGHT IBM CORP 37	² . 1980, 2005.		20,7					
iSeries Access for Web	Attention	Refresh Screen	Field Exit	Page Up	Enter				
• iSeries Access • iSeries Navigator	System Request	Stop Session	Reset	Page Down					
· iSeries Information Center	System Request	Stop Session	Reset	Page Down					
iSeries Resource	Macros								
Library	Macro: Shortcut to My macro for *PUBLIC V Play Macro								
	Start Recording								
	Traditional view								
	Switch this session to tradition	onal view.							

Switch to traditional view by selecting the "Traditional view" link

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	_			-
			-	
	_			
_	_	_	_	_

Active Session - Traditional View



Switch to web view by selecting the "Web view" link



Web View vs. Traditional View

Web View

- Proportional font
- Menu displayed as links
- Active function keys displayed as buttons
- Allows cursor positioning at non-input fields
- Display "More..." as button
- Message line (25th line) treated as help

Traditional View

- Fixed width font
- Function key bar (F1-F24)
- Background color configurable (default is black)

- All the view settings are configurable.
- Configure web and traditional view settings for your environment.

Cursor Positioning

View	0	
Web		Traditional
Show navigation bar		Show navigation bar
Show action links		Show action links
Show hotspot links		Show hotspot links
Show JavaScript indicator		Show JavaScript indicator
Display text using fixed width font		Display text using fixed width font
Enable "More" as button		Enable "More" as button
🗹 Enable menu items as links		Enable menu items as links
Show function key bar		Show function key bar
Show macros section		Show macros section
Show operator information area (OIA)		Show operator information area (OIA)
Show active sessions		Show active sessions
Enable cursor positioning		Enable cursor positioning
Position cursor at exact location		Position cursor at exact location
Enable message text line as help link		Enable message text line as help link
Enable active function keys as buttons		\square Enable active function keys as buttons
Show function key text (Fxx=) on butto	n	



Cursor Positioning

Problem

- Many 5250 applications rely on cursor location for context sensitive help and prompting
- Web pages do not have a "text cursor" except in input fields

Solution

- All non input fields are turned into links
- Clicking on the link places the cursor at that location
- Two settings for cursor positioning
 - Place cursor at the beginning of the field
 - Smaller HTML content
 - May not work for applications that require exact cursor location
 - Place cursor at the exact location
 - Larger HTML content





Keypads

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My Keypads

Configuring a Keypad is a very effective way to simplify many end user tasks

 For example, a button to do a 'Host Print' of a screen

My Home Page	Host Print	Field Exit	Field Minus	Field Plus Refresh Screen				
🗄 My Folder	Erase EOF	Erase Field	Erase Input					
Print								
Messages	MAIN							
Jobs				System: LP016A				
5250	Select one of the f	Select one of the following:						
• Active sessions	1. User tasks	3		2				
· Configured sessions	-	1. User tasks 2. Office tasks						
• Start session	 General system tasks Files, libraries, and folders Programming 							
Database								
Files	6. Communic	ations						
Command		change the system						
Download		8. Problem handling 9. Display a menu						
Customize	10. Informatio	n Assistant options						
Other	11. iSeries Ac	cess tasks						
	90. Sign off							
Related Links:	Selection or comma	ind						
• iSeries Access for Web	===>							
· iSeries Access		rompt F9=Retrieve	F12=Cancel	F13=Information Assistant				
 iSeries Navigator iSeries Information 	F23=Set initial me	enu 3M CORP. 1980, 2005						



Keypads

Three sets of keypads

- Top, right, and bottom
- Each set can be customized
- Each set can be turned on or off

Macros can be assigned to keypad

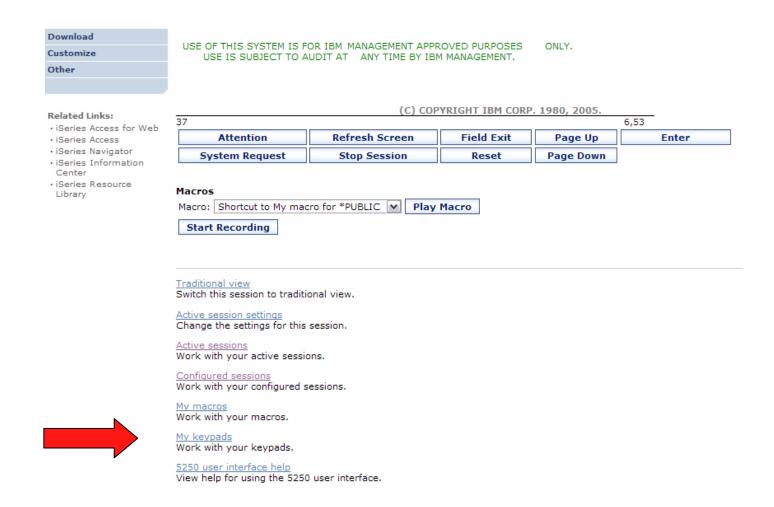
Configuration is per user

- One keypad configuration per user
- Global across all session configurations
- Not tied to session configuration

My Home Page	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12					
🗋 My Folder	F13	F14	F15	F16	F17	F18	F19				F23	F24					
Print													I				
Messages						Sign ()n		_								
Jobs										ystem ubsyst				LP016 QINT			
5250		Display : QPADEV0							EV000G	F1	F13						
Active sessions			Us	er						Г						F2	F14
Configured sessions			Pa	ssword	l					Ē						F3	F15
Start session			Pr	ogram/	proce	dure .										F4	F16
Database		Menu							F5	F17							
Files			Cu	irrent l	ibrary	•••••	••••									F6	F18
Command																	
Download																F7	F19
Customize				RI	ELEAS	E: V05	R04M0	0								F8	F20
Other				D	RIVER	: 4501	130									F9	F21
	USE	OF TH	IS SYS	TEM IS	FOR	IBM M	ANAGE	MENT	APPRO	VED P	URPOS	SES	ONLY.			F10	F22
	l	USE IS	SUBJ	ECT TO	AUDI	T AT	ANY 1	TIME B	Y IBM I	MANAG	SEMEN	Γ.				F11	F23
Related Links:																F12	F24
 iSeries Access for Web iSeries Access 																	
 iSeries Navigator 								(C)	COPYI	RIGHT	IBM (CORP.	1980, 20	005.			
 iSeries Information Center 	37														6,53		
iSeries Resource		Atte	ention			Refre	esh Sc	reen		Fiel	d Exit		Page	Up		Enter	
Library	S	ystem	Requ	est		Sto	p Sess	sion		Re	eset		Page D	own]		

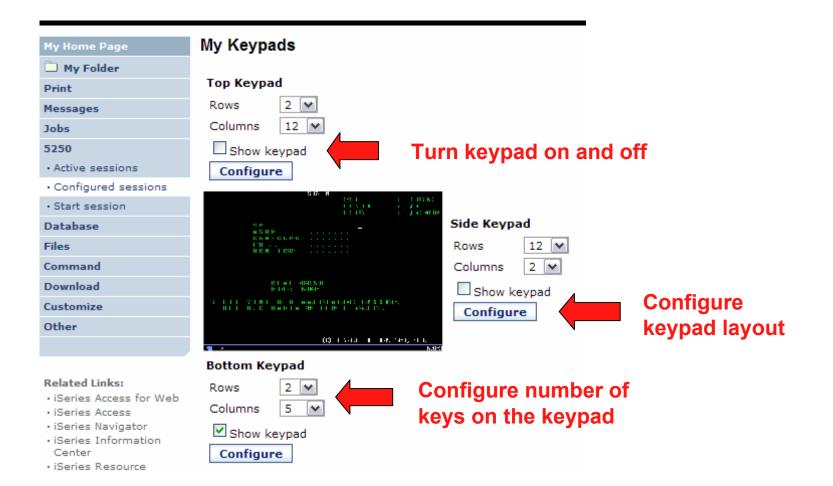
Keypads cannot be set by administrator for users

Configuring Keypad





Configuring Keypad



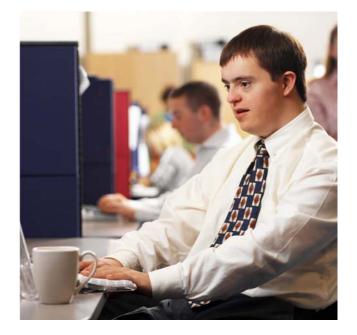


Configuring Keypad

Configure Bottom Keypad

My Folder					
Print	Attention	~	Refresh Screen	~	Field Exit
Messages	System Request	~	Stop Session		Reset
Jobs	OK Cancel		Field Exit Field Mark		
5250			Field Minus		
Active sessions	5250 user interface help		Field Plus Field Reverse		
Configured sessions	View help for working with your keypads.		Help		
Start session			Home Host Print		
Database			Insert		
Files			Latin Layer New Line		
Command			PA1		
Download			PA2 PA3		
Customize			Page Down		
Other			Page Up Refresh Screen		
			Reset		
			Screen Reverse Stop Session	v	
Related Links:					





Shared Sessions

Sharing an Active Session

Give another user or group a read-only view into an active session

- Example: user SALESMAN shares session with help desk-JOE

My Home Page Active Sessions Print Server Session Started Last Accessed View Action Messages S400LA.rchland.ibm.com A 3/12/07 6:08:21 AM CDT 3/12/07 6:09:03 AM CDT Web Image Image <th colspan="2">iSeries Access for Web</th> <th></th> <th>User: salesman</th> <th>System: S400LA.rchland.ibm</th> <th>.com</th> <th>THM</th>	iSeries Access for Web			User: salesman	System: S400LA.rchland.ibm	.com	THM
My Folder Server Session Started Last Accessed View Action @ Print Server Session Started Last Accessed View Action @ Sd00LA.rchland.ibm.com A 3/12/07 6:08:21 AM CDT 3/12/07 6:09:03 AM CDT Web @ </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
My Folder Print Server Session Started Last Accessed View Action Action Jobs S400LA.rchland.ibm.com A 3/12/07 6:08:21 AM CDT 3/12/07 6:09:03 AM CDT Web Image: Second Seco	My Home Page	Active Sessio	ns				
Server Session Started Last Accessed View Action Jobs S400LA.rchland.ibm.com A 3/12/07 6:08:21 AM CDT 3/12/07 6:09:03 AM CDT Web Image: Comparison of the compar	🛄 My Folder						
Messages S400LA.rchland.ibm.com A 3/12/07 6:08:21 AM CDT 3/12/07 6:09:03 AM CDT Web Image: Comparison of the series of the	Print	Comun	Cassian	Charled	Last Assessed	View	A
Jobs 5250 • Active sessions • Configured sessions • Start session Display a list of active sessions others are sharing with me. Database Files Display a list of active sessions I am sharing with others. Command Download Other Start session. Start a new session. Related Links:	Messages						
 Active sessions Configured sessions Start session Display a list of active sessions others are sharing with me. Database Shared sessions Display a list of active sessions I am sharing with others. Command Configured sessions Work with your configured sessions. Customize Other Start session Start a new session. My macros Work with your macros. 	Jobs	S400LA.rchiand.ibm.com	A	3/12/07 6:06:21 AM CD	1 3/12/07 6:09:03 AM CD1	web	
· Configured sessions View-only sessions · Start session Display a list of active sessions others are sharing with me. Database Shared sessions Files Display a list of active sessions I am sharing with others. Command Configured sessions Download Configured sessions Other Start session Start a new session. Start a new session. Related Links: My macros	5250						
• Start session Display a list of active sessions others are sharing with me. Database Shared sessions Files Display a list of active sessions I am sharing with others. Command Configured sessions Download Configured sessions Work with your configured sessions. Work with your configured sessions. Customize Start session Other Start a new session. Related Links: My macros.	Active sessions						
• Start session Display a list of active sessions others are sharing with me. Database Shared sessions Files Display a list of active sessions I am sharing with others. Command Configured sessions Download Configured sessions. Customize Start session Other Start session. Related Links: My macros.	Configured sessions	View-only sessions					-
Shared sessions Files Display a list of active sessions I am sharing with others. Command Configured sessions Download Configured sessions Work with your configured sessions. Work with your configured sessions. Other Start session Start a new session. My macros Related Links: My macros.	Start session		ions others a	are sharing with me.			
Files Display a list of active sessions I am sharing with others. Command Configured sessions Download Configured sessions Customize Start session Other Start session. Related Links: My macros.	Database	Channel annaises					
Download Configured sessions Work with your configured sessions. Customize Start session Start a new session. Other Start session Start a new session. Related Links: My macros Work with your macros.	Files		ions I am sh	aring with others.			
Download Work with your configured sessions. Customize Start session Other Start session Start a new session. Related Links: My macros Work with your macros.	Command						
Customize Start session Other Start a new session. Related Links: My macros Work with your macros.	Download		cessions				
Start a new session. My macros Work with your macros.	Customize	work with your conlighted	363510115.				
Related Links: Work with your macros.	Other						
Related Links: Work with your macros.		Start a new session.					
Related Links: Work with your macros.		My macros					
· iSeries Arcess for Web	Related Links:						
	 iSeries Access for Web 						
iSeries Access <u>My keypads</u>							
iSeries Navigator Work with your keypads.	-	Work with your keypads.					
• iSeries Information						0.00	



Notes: Shared Sessions

Active sessions can be shared with other users and groups. The user who starts the session maintains full control of it. Users with whom the session is shared can only view the session. They cannot enter input or change the session settings.

Changes to a shared session are not automatically seen by users viewing the session. The browser's refresh button must be used to see the latest changes.

Sharing an Active Session

SALESMAN enters the user or group profile to share the session with Joe

My Home Page	Share 5250 Session
🗀 My Folder	
Print	Users: joe Browse
Messages	Share Session
Jobs	Share Session
5250	

 _	-			_
				-
			-	
	-			-
 _	_	_		
 _	_	-		-

View-only Sessions

Help desk (Joe) now selects "View-only sessions" link to display the list

iSeries Access for W	eb
My Home Page	Active Sessions
Print	Server Session Started Last Accessed View Action 🕑
Messages	
Jobs	
5250	
Active sessions	View-only sessions
Configured sessions	Display a list of active sessions others are sharing with me.
Start session	Shared sessions
Database	Display a list of active sessions I am sharing with others.
Files	
Command	Configured sessions Work with your configured sessions.
Download	
Customize	Start session

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		_	-	_
-	_	_	_	- N - 4
	_	_	_	_
_	_	_		
_		_		_

View-only Session List

Joe clicks the "View" button to view the session

iSeries Access for W	/eb			User: jo	e System: 9
My Home Page	View-only Se	ssione	2		
D My Folder	view only de	551011.	5		
Print	Server	Session	Owner	Access	Action 😧
Messages	S400LA.rchland.ibm.com		salesman		ĭ ←
Jobs	5400241101101101110011	<u> </u>	Sarcoman	502	
5250					
Active sessions					
Configured sessions	Active sessions				
Start session	Work with your active sess	ions.			
Database	Configured sessions				
Files	Work with your configured	sessions.			
Command					
Download	Start session Start a new session.				
Customize	otart a new sussion				
Other	My macros				
	Work with your macros.				
Related Links: • iSeries Access for Web	<u>My keypads</u> Work with your keypads.				
iSeries Access	5250 user interface help				



View-only Session

View-only session: input fields are disabled.

Use the browser "Refresh" button to display updated screens.

My Home Page			N.	Vork with	Activo 1	abs		LP016AB
🛄 My Folder			v	VOLK WITH	Active	005	03/11/06	18:19:58
Print	CPU 9	%: .0	Elapsed time	: 00:00:00		Active jobs:	341	
Messages		options, press En						
Jobs					5=Work with 6=Release 7 13=Disconnect			essage
5250	Ū		Current					
Active sessions	Opt	Subsystem/Job OBATCH	User QSYS	Type SBS	CPU %	Function	Status DEQW	
Configured sessions		QCMN	QSYS	SBS	.0		DEQW	
Start session	-	QCTL	QSYS	SBS	.0		DEQW	
Database	-	QSYSSCD OHTTPSVR	QPGMR QSYS	BCH SBS	.0 .0	PGM-QEZSCNEP	EVTW DEQW	
Files	_	ADMIN	QTMHHTTP	BCH	.0	PGM-QZHBMAIN	SIGW	
riles	_	ADMIN	QTMHHTTP	BCI	.0	PGM-QZSRLOG	SIGW	
Command	-	ADMIN	QTMHHTTP	BCI	.0	PGM-QZSRHTTP	SIGW	
Download	-	IWATOMCAT	QTMHHTTP	BCH	.0	PGM-QZHBMAIN	SIGW	More
Customize		neters or command						
Other	F3=E		sh F7	=Find	F10=	-Restart statistic	s	
	F11=	Display elapsed d		2=Cance	F23=	More options	F24=More	keys
	37							10.2

37

10,2



Managing Shared Sessions

SALESMAN selects "Shared sessions" from the "Active Sessions" list to display the list of active sessions that are being shared

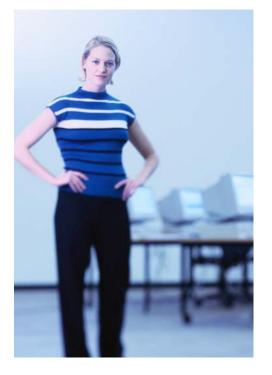
iSeries Access for Web			User: salesman	User: salesman System: S400LA.rchland.ibm.com				
My Home Page	Active Sessio	ns						
Print	Server	Session	Started	Last Accessed	View	Action 😧		
Messages	S400LA.rchland.ibm.com			T 3/12/07 6:09:03 AM CDT		2 2 / C		
Jobs	5400EA.reniand.ibin.com	^	3/12/07 0.00.21 AM CD	1 3/12/07 0.05.05 AM CD1	Web	72 <u>1</u> 9 // 1.9		
5250								
Active sessions								
Configured sessions	View-only sessions							
Start session	Display a list of active sess	sions others	are sharing with me.					
Database	Shared sessions							
Files	Shared sessions Display a list of active sess	sions I am s	sharing with others.					
Command			-					
Download	Configured sessions	sossions						
Customize	Work with your configured	sessions.						

IBM System i Shared Session List

SALESMAN uses the "Stop sharing" button to stop sharing this session

iSeries Access for W	eb		User	: salesman	System
My Home Page	Shared Session	ons			
Print	Server	Session	Access	Action 😧	
Messages	S400LA.rchland.ibm.com	A	JOE	🗊 🔶	
Jobs					_
5250					
Active sessions					
Configured sessions	Active sessions				
Start session	Work with your active sessi	ons.			
Database	Configured sessions				
Files	Work with your configured s	sessions.			
Command					
Download	<u>Start session</u> Start a new session.				
Customize	Start a new session.				
-					



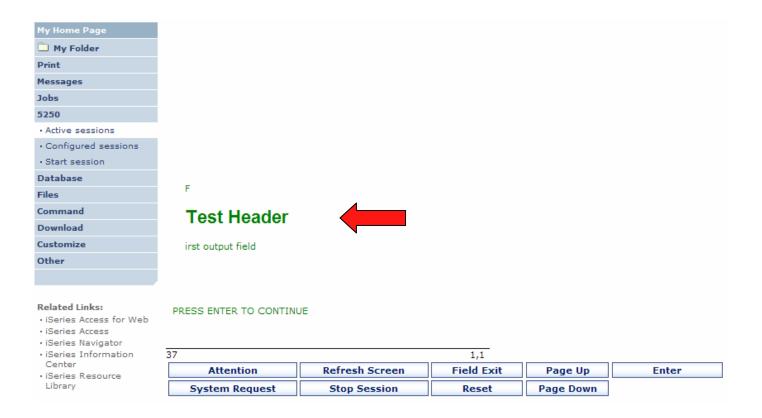


Other



DDS HTML Support (new in V5R4)

HTML contained within 5250 screen



Hotspot (new in V5R4)

My Home Page	3/13/06		Page 1 URL Testing		LP126AB				
🛄 My Folder	13:09:19	-	age I OKE resting		SMSHAO				
Print	Case tests								
Messages	lower		rchland.ibm.com/						
Jobs			RCHLAND.IBM.COM/ rchland.ibm.com/						
5250									
Active sessions	Case test secu lower		.rchland.ibm.com/~jhansen	/aiwa/service/v5r3m	10/				
Configured sessions	UPPER	HTTPS://w	/3.rchland.ibm.com/~jhanse	n/qiwa/service/v5r3	m0/				
Start session	CaMeL	HtipS://w	3.rchland.ibm.com/~jhanse	n/qiwa/service/v5r3i	m0/				
Database		est secure							
Files	3m0/ UPP		https://w3.rchland.ibm.com/~jhansen/qiwa/service/v5r HTTPS://w3.rchland.ibm.com/~jhansen/qiwa/servic						
Command	e/v5r3m0/ CaM	1eL	HtTpS://w3.rchland.ibm.						
Download	0/								
Customize									
Other									
			http:/	//w3.ibm.com					
	37		nup;	//ws.ibm.com	1,	1			
Related Links:	Attentio	on	Refresh Screen	Field Exit	Page Up	Enter			
iSeries Access for Web iSeries Access	System Re	quest	Stop Session	Reset	Page Down				

iSeries Access	System Request	Stop Session	Reset	Page Down				
• iSeries Access for Web	Attention	Refresh Screen	Field Exit	Page Up	Enter			
Related Links:	37 1,1							
	http://w3.ibm.com							
Other								
Customize								
Download	<u>97</u>							
Command	<u>e/v5r3m0/</u> CaMeL 0/	HtTpS://w3.rchland.ibm.	:om/~jhansen/giwa/	service/v5r3m				
Files	3m0/ UPPER	HTTPS://w3.rc	hland.ibm.com/~jha	nsen/qiwa/servic				
Database	Case test secure lower https://w3.rchland.ibm.com/~jhansen/qiwa/service/v5r							
Start session	CaMeL <u>HtTpS://w3.rchland.ibm.com/~ihansen/qiwa/service/v5r3m0/</u>							
Configured sessions	Case test secure lower <u>https://w3.rchland.ibm.com/~ihansen/giwa/service/v5r3m0/</u> UPPER <u>HTTPS://w3.rchland.ibm.com/~ihansen/giwa/service/v5r3m0/</u>							
Active sessions								
5250								
Jobs		3.RCHLAND.IBM.COM/ 3.rchland.ibm.com/						
Messages	lower http://w3.	.rchland.ibm.com/						
Print	Case tests							
D My Folder	13:09:19	rage role realing		SMSHAO				
My Home Page	3/13/06	Page 1 URL Testing		LP126AB				

5250 and Portal Server

WebSphere Portal				My Portal Administration & Edit my pr			
				<u>New Page</u> Edit Page Assig			
Welcome My Work	My Finances My N	ewsroom My iSeries	stymie	My Favori			
4 5250 IFrame Portlets	Files Print Databa	ase Command					
iSeries 5250 Session			+ / ? - 0	Welcome			
F1 F2 F3 F4	F5 F6 F7	F8 F9 F10	0 F11 F12	Welcome to the iSeries Access portlets - specifically developed Access customers. These portlets allow you to access informat			
F13 F14 F15 F16	F17 F18 F19	F20 F21 F2	2 F23 F24	iSeries servers through a Web browser.			
User Password Program/proced Menu Current library . RELEASE	ure 	 iSeries Access portlets include the following: \$250 portlet Run commands and access full-screen 5250 character-based applications. IFrame portlet Access any of the iSeries Access for Web servlet IFrame portlet. Integrated file system (IFS) browsing portlets Browse the iSeries integrated file system. View, edit, upload and download files. Printers, printer output, and output queues portlets View printer status, start and stop the writer job with a printer. Hold and release output queues. Database tables and SQL portlets View query results, customize format of results. Run SQL statements dynamically. Commands portlets are included with iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for Web product is part of the iSeries Access for the iseries Access for Web product is part of the iSeries Access for the iseries Acces					
	(C) COPY	RIGHT IBM CORP. 198		(5722-XW1). For more information regarding iSeries Access, it for Web, and the iSeries Access portlets, refer to the following			
37 Keyboard function keys	Keyboard focus		6,53	iseries Access iseries Access iseries Access iseries Access			
Enter Attention	Refresh Screen	Field Exit	Page Up	Iseries Access for Web Iseries Access Portlets			
System Request	Stop Session	Reset	Page Down	Find more great portlets from the <u>IBM WebSphere portlet cata</u> the IBM WebSphere Portal Zone.			



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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

Photographs shown are of engineering prototypes. Changes may be incorporated in production models.