



IBM System i™

Session: 500121

Agenda key: 33MI

System i Access for Web Security Considerations

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




Mark Vanderwiel
IBM Rochester – System i Access for Linux
and Windows Development
vanderwl@us.ibm.com

Doug Beauchene
IBM Rochester – System i Access for
Web Development
dougbeau@us.ibm.com

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

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System i Access for Web Sessions/LABs

22CC	409136		Get to the Web Fast with System i Access for Web
25LA	520027		LAB: Getting Started with System i Access for Web
32MI	409160		Database Access with System i Access for Web
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36MF	440281		Run 5250 through a Browser using System i Access for Web
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42LA	450047		LAB: System i Access for Web: Installation and Configuration
44MN	420016		Build a Home Page to i5/OS using System i Access for Web
45MN	420015		Tips and Techniques for System i Access for Web
53LA	420063		LAB: Test Drive System i Access for Web
55MM	470021		System i Access for Web runs in a Portal
56MM	480144		Programming with System i Access for Web



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

Try out System i Access for Web for yourself!

Start your browser and connect to the following web site:

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

<p>User ID = WUSER</p> <p>Password = DEMO2PWD</p>	<p>This shows the basic look of Access for Web as we ship it. You can try various functions -- including working with printer output, creating database requests, etc. Click on the 5250 tab, sign onto the i5/OS, then start an RPG application called BOATS and run it.</p>
<p>User ID = BOATADMIN</p> <p>Password = DEMO2PWD</p>	<p>This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session -- or they could have used WebFacing to run the application. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc..</p>

Agenda

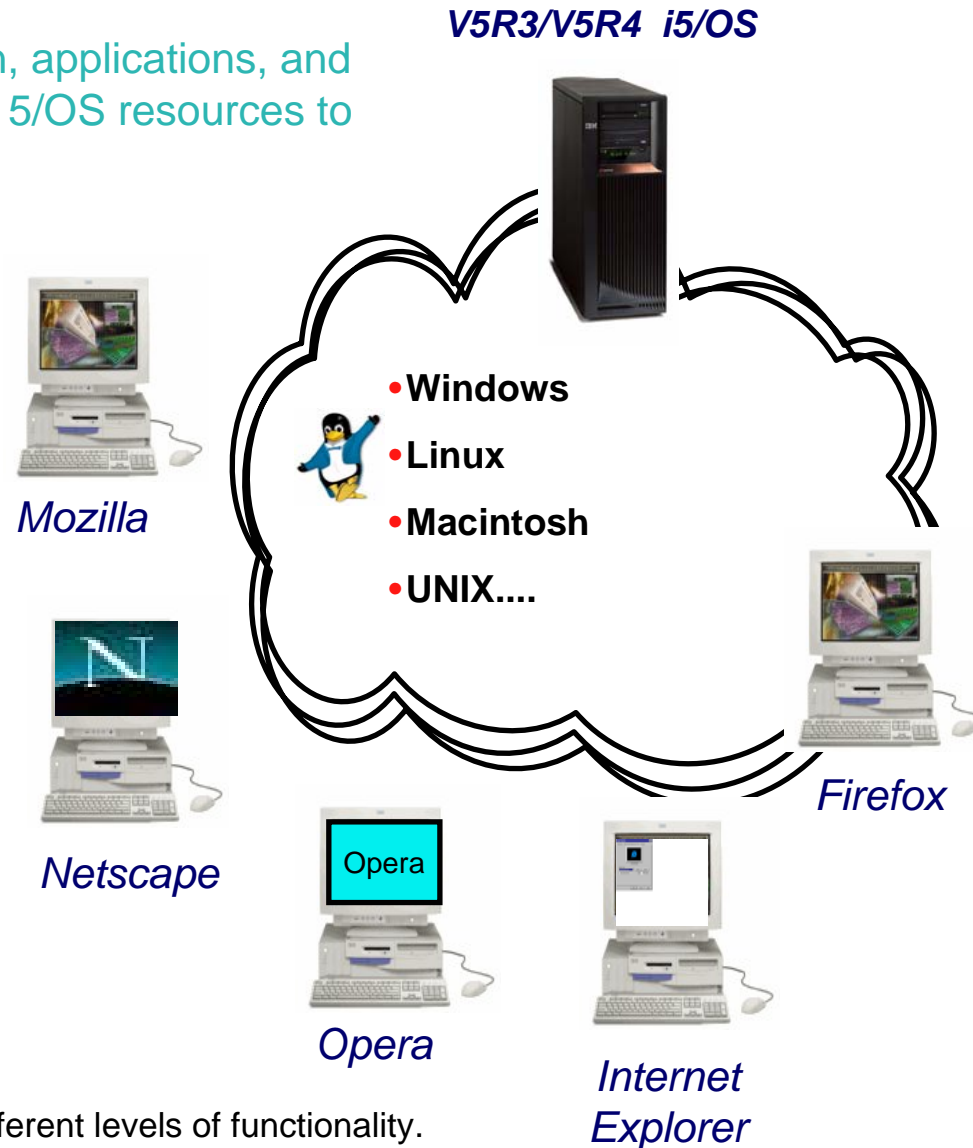
Security considerations in the web environment relative to System i Access for Web

- System i Access for Web overview
 - What is it
 - The environment it runs in
- Environment security
 - SSL and VPN
- Authentication security options
 - How does the user authenticate to System i Access for Web?
 - How does System i Access for Web authenticate with i5/OS?
 - System i Access for Web in a WebSphere Single Signon (SSO) environment
 - Special considerations for 5250 and database
- System i Access for Web and Portal
 - How are things different?
- System i Access for Web runtime (usage) security
 - Use of policies
 - Custom homepage/template
- Additional information
 - Websites
 - Application Server Authentication: WebSphere Global Security
 - Application Server Authentication: EIM domain configuration
 - Application Server Authentication: EIM Identity Token Connector

What is System i Access for Web?

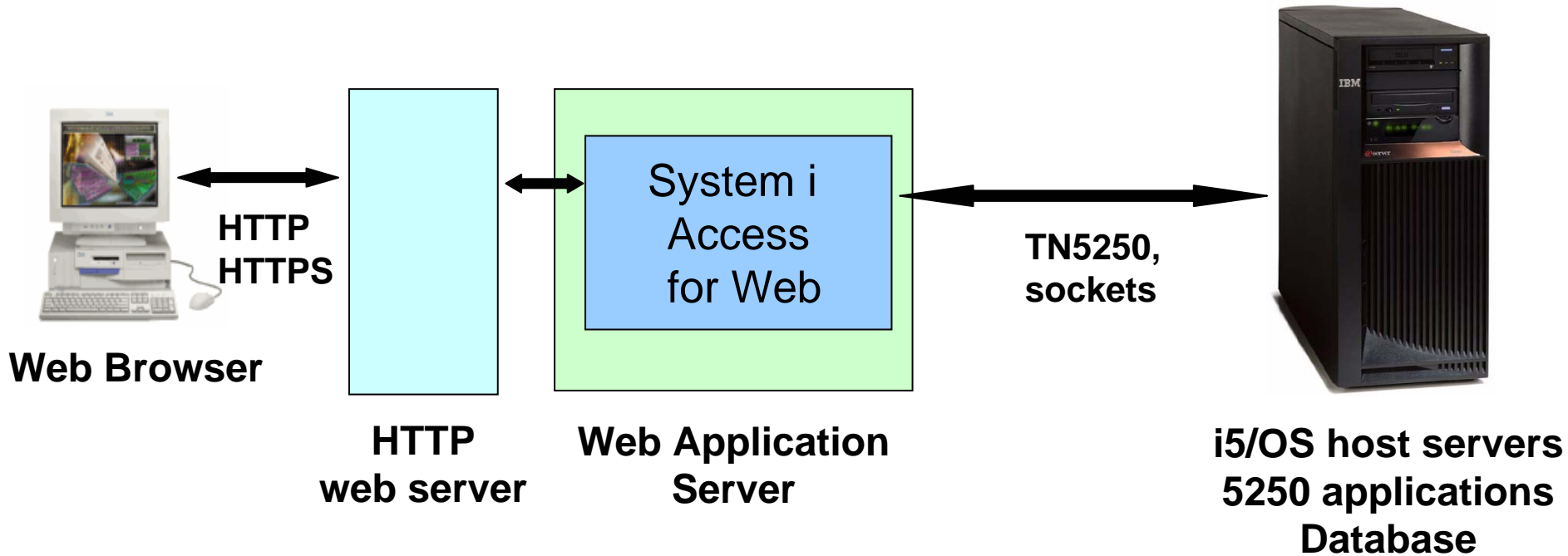
End users can leverage business information, applications, and resources across an enterprise by extending 5/OS resources to the client desktop through a web browser

- Provides a web-based view of i5/OS applications and resources through a browser
- Runs on i5/OS
- Requires no software be installed on the client other than a browser
- Provides two offerings:
 - Web application
 - Portal application



Note: Web application and portal application have different levels of functionality.

System i Access for Web Environment

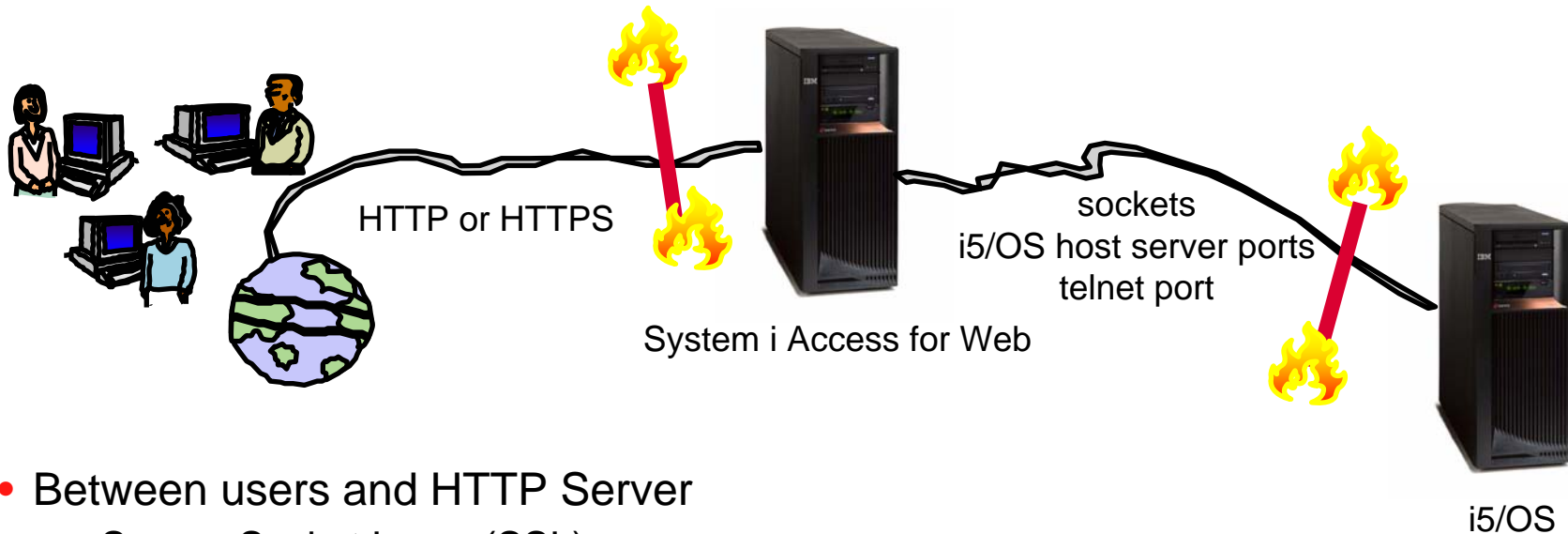


Agenda

Environment security

- SSL and VPN

System i Access for Web Environment (continued)



- Between users and HTTP Server
 - Secure Socket Layer (SSL)
 - Virtual Private Networking (VPN)
 - Firewalls
- Between System i Access for Web and i5/OS
 - VPN
 - Firewalls

Secure Sockets Layer

- Used for data confidentiality between Web browser and HTTP server
 - Digital certificates used to determine trust relationships
 - Point to Point encryption for all data (PC App to Server App)
 - Part of the standard HTTPS protocol
- See Info Center for specific details on Configuration and Setup.
 - See the “Configure WebSphere Security” topic
- Levels of SSL
 - TLSv1, SSLv3 recommended, use 128-bit or higher
 - SSLv2 should not be used anymore. Disable in clients and server (APAR SE25734)

Virtual Private Networking

- Used for data confidentiality between Web browser and HTTP server
 - Digital certificates and User authorization used establish tunnel
 - End to End encryption for all data (PC to Server tunnel)
 - Allows any protocol, including standard HTTP
- See Info Center for specific details on Configuration and Setup.
 - See the “Virtual Private Networking” topic
- Redbooks
 - IBM System i Security Guide for IBM i5/OS Version 5 Release 4 (SG24-6668-01)
 - OS/400 V5R2 Virtual Private Networks (REDP-0153-01)

Agenda

Authentication security options

- How does the user authenticate to System i Access for Web?
- How does System i Access for Web authenticate with i5/OS?
- System i Access for Web in a WebSphere Single Signon (SSO) environment
- Special considerations for 5250 and database

Authentication

- Authentication is verifying the identity of the user
- System i Access for Web supports two types of authentication
 - Application
 - System i Access for Web handles the authentication
 - Application Server
 - WebSphere Application Server handles the authentication
- Specified by the AUTHTYPE parameter on the CFGACCWEB2 command
 - Application: AUTHTYPE(*APP)
 - Application Server: AUTHTYPE(*APPSVR)

Authorization

- Authorization is verifying that authenticated users have permission to access requested resources
- System i Access for Web uses the i5/OS user profile and object level security to authorize access to i5/OS resources
- System i Access for Web provides application level control of access to functions through policies
 - Policies can be administered at the i5/OS user and group profile levels

My Home Page
My Folder
Print
Messages
Jobs
5250
Database
Files
Command
Download
Customize
• Preferences
• Policies
• Settings
• Transfer configuration
Other

Policies

Profile: JHANSEN

Action	Category	Description	Access ?
	5250	5250 user interface custom settings.	Allowed
	Command	Run batch command custom settings.	Allowed
	Customize	Preferences and policy administration custom settings.	Allowed
	Database	Database tables, requests, and run SQL custom settings.	Allowed
	Database connections	Create and edit database connection definitions.	Allowed
	Download	Download packages custom settings.	Allowed
	Files	Integrated file system and file share custom settings.	Allowed
	General	Page layout, language and character set custom settings.	Allowed
	Jobs	Work with jobs custom settings.	Allowed
	Mail	Send mail custom settings.	Allowed
	Messages	Display messages, send messages, and message queue custom settings.	Allowed

Application Authentication

- System i Access for Web handles authentication
- i5/OS user profile and password
 - Hostname specified by the TGTSVR parameter on the CFGACCWEB2 command
- Method: HTTP basic authentication
 - RFC2617
 - User profile and password are encoded (not encrypted) in the HTTP headers and should be protected

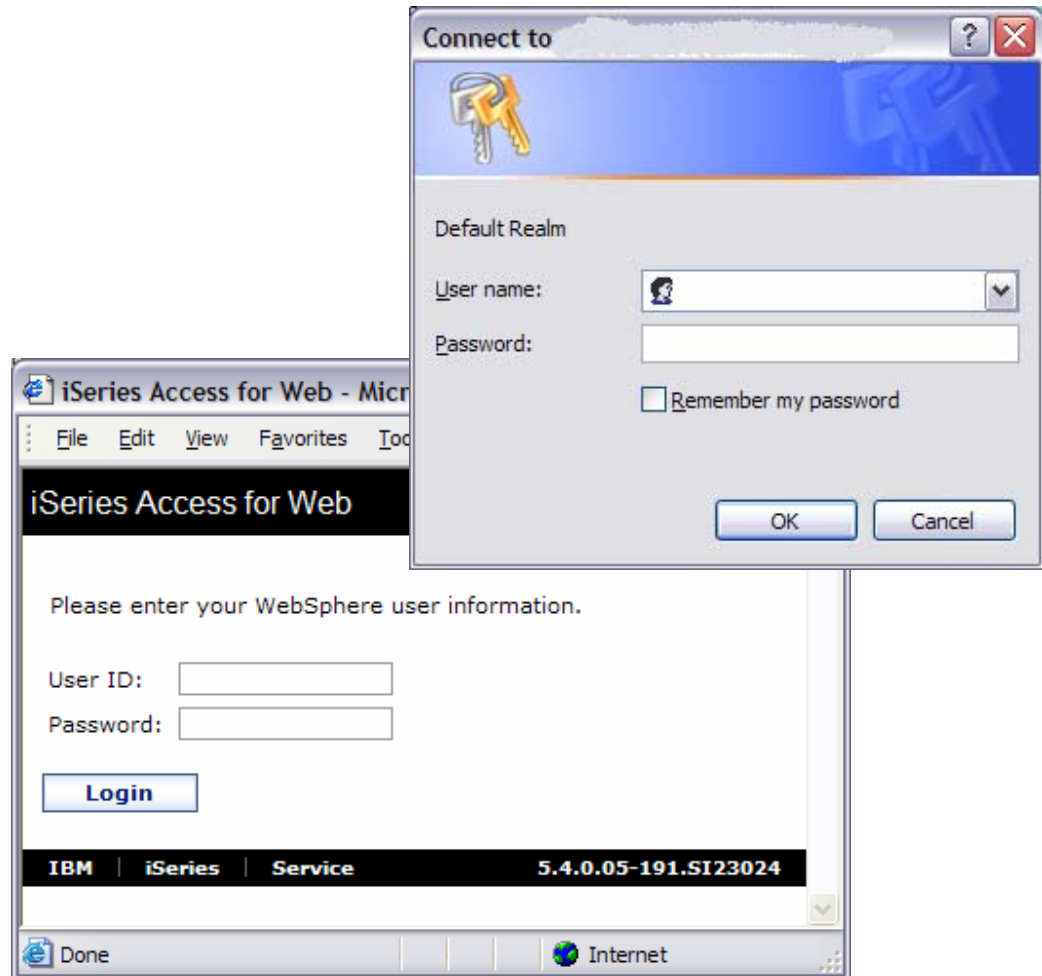


Application Server Authentication

- WebSphere handles authentication
- WebSphere credentials
 - Typically a user ID and password
 - Authenticated with the active WebSphere user registry
- System i Access for Web uses Enterprise Identity Mapping (EIM) to map the authenticated WebSphere user identity to an i5/OS user profile
 - System i Access for Web identifies the user by the mapped i5/OS user profile
 - i5/OS user profile is used to authorize access to i5/OS resources using object level security

Application Server Authentication (continued)

- System i Access for Web supports two methods of gathering credentials
 - HTTP basic authentication
 - User ID and password are encoded (not encrypted) in the HTTP headers and should be protected
 - Form-based authentication
 - User ID and password are clear text and should be protected
- Specified by the AUTHMETHOD parameter on the CFGACCWEB2 command
 - HTTP basic authentication: AUTHMETHOD(*BASIC)
 - Form-based authentication: AUTHMETHOD(*FORM)

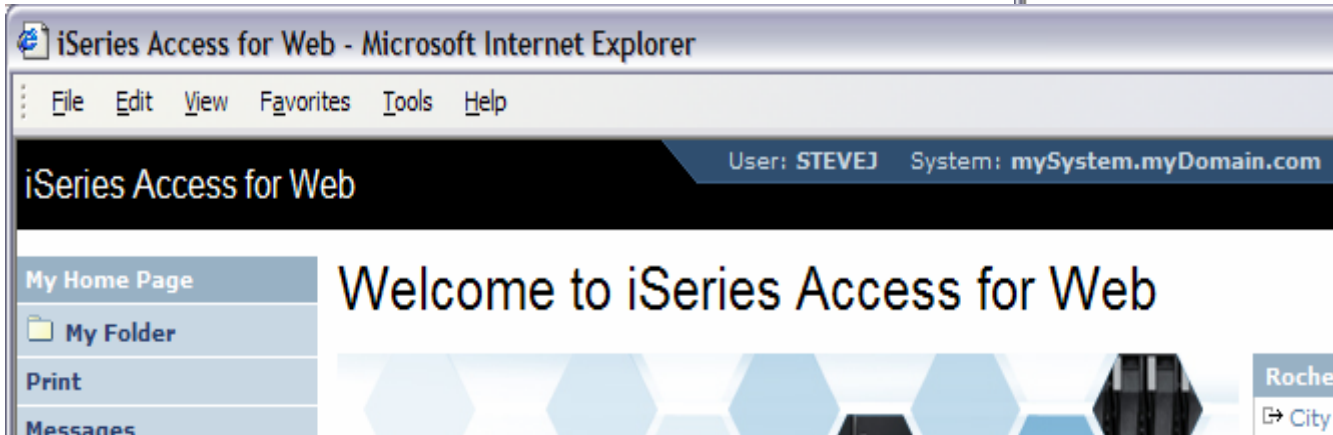
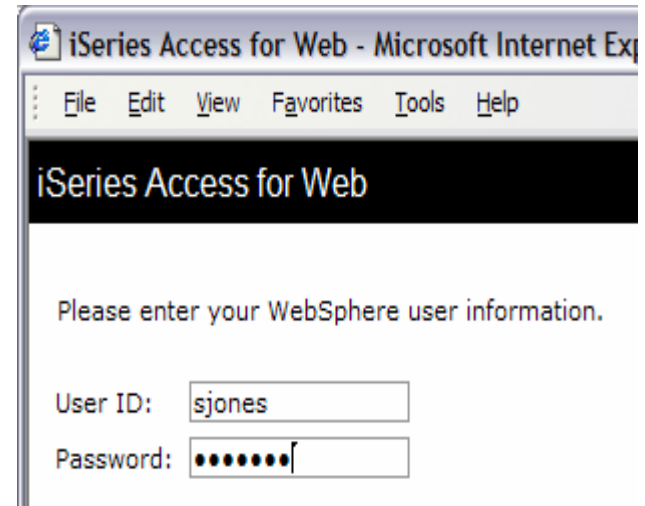


Application Server Authentication Required Configuration

- WebSphere with global security enabled and an active user registry to authenticate users
- An EIM domain configuration for i5/OS to enable mapping of WebSphere user identities to i5/OS user profiles
- The EIM Identity Token Connector (resource adapter) installed and configured in WebSphere
 - Used to request identity tokens (encrypted data strings that represent the authenticated WebSphere user identity) which are input to EIM lookup operations.
- **Note:** See Additional Information charts at the end of this presentation for more information on the above required configuration.

Application Server Authentication Configure System i Access for Web

- Configure System i Access for Web
 - CFGACCWEB2
 - AUHTYPE(*APPSVR)
 - AUTHMETHOD(*FORM) ...



Application Server Authentication WebSphere Single Signon (SSO)

- Allows users to authenticate one time when
 - Accessing WebSphere resources and Lotus Domino resources
 - Accessing resources in multiple WebSphere Application Server domains
- Requirements for WebSphere SSO
 - Use the same user registry
 - Set the domain name service (DNS) domain
 - Share the LTPA keys (export/import)
- Refer to the WebSphere Information Center for details
 - Search for “single signon”
- System i Access for Web Information Center contains an example of setting up the WebSphere SSO environment.

Application Server Authentication WebSphere SSO (continued)

- Enable SSO
- Specify DNS domain
- Share LTPA keys

Resources

Security

- Global security
- SSL

Environment

System administration

Authentication

- Authentication mechanisms
- LTPA**
- Authentication protocol
- JAAS Configuration

Global security > LTPA

Generate Keys **Import keys** Export Keys

General Properties

* Password

* Confirm password

Additional Properties

Single signon (SSO)

- Trust association

Global security > Single signon (SSO)

General Properties

Enabled

Requires SSL

Domain name
 myDomain.com

Interoperability Mode

Web inbound security attribute propagation

Apply OK Reset Cancel

5250 Sessions

- 5250 sessions can be started to any system running i5/OS
- Must provide user profile and password on i5/OS Sign On screen

Start Session

Server ?
 Server:
 Port:
 Code page:

Workstation ID ?
 Use user ID
 Specify workstation ID
 Avoid duplicates for this user
 Avoid duplicates with other users

General ?
 Initial macro:
 Bypass signon
 Display HTML data in fields

Sign On

System :
 Subsystem : QINTER
 Display : QPADEV0006

User :
 Password :
 Program/procedure :
 Menu :
 Current library :

RELEASE: V05R03M00
 DRIVER: 2600722

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

5250 Session Bypass Signon

- QRMTSIGN system value must be *VERIFY
- Select bypass signon when starting or configuring a session

Configure New Session

General ?

Session: * required

Default view:

Initial macro:

Bypass signon

Display HTML data in fields

Enable advanced JavaScript functions

Server ?

Server:

Port:

Start Session

Server ?

Server:

Port:

Code page:

Workstation ID ?

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

General ?

Initial macro:

Bypass signon

Display HTML data in fields

Start Session

- System i Access for Web must be configured for application authentication or bypass signon is not available
 - CFGACCWEB2 AUTHTYPE(*APP) ...

5250 Session Signon Macro

- Record a macro to sign on
- Edit the macro
 - Replace user profile with [user]
 - Replace password with [password]
- Select as initial macro when starting session

Macro: **Signon**

```
[cursor 6,53][erasefld][user]cursor 7,53][erasefld][password][enter][wait][enter][wait]
```

Server

Server:

Port:

Code page: ▼

Workstation ID

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

General

Initial macro: ▼

Bypass signon

Display HTML data in fields

Start Session

5250 Session Signon Macro (continued)

- Select as initial macro when configuring a session
- System i Access for Web must be configured for application authentication or [password] substitution in macros will not work
 - CFGACCWEB2 AUTHTYPE(*APP) ...

Configure New Session

General

Session: * required

Default view: ▼

Initial macro: ▼

Bypass signon

Display HTML data in fields

Enable advanced JavaScript functions

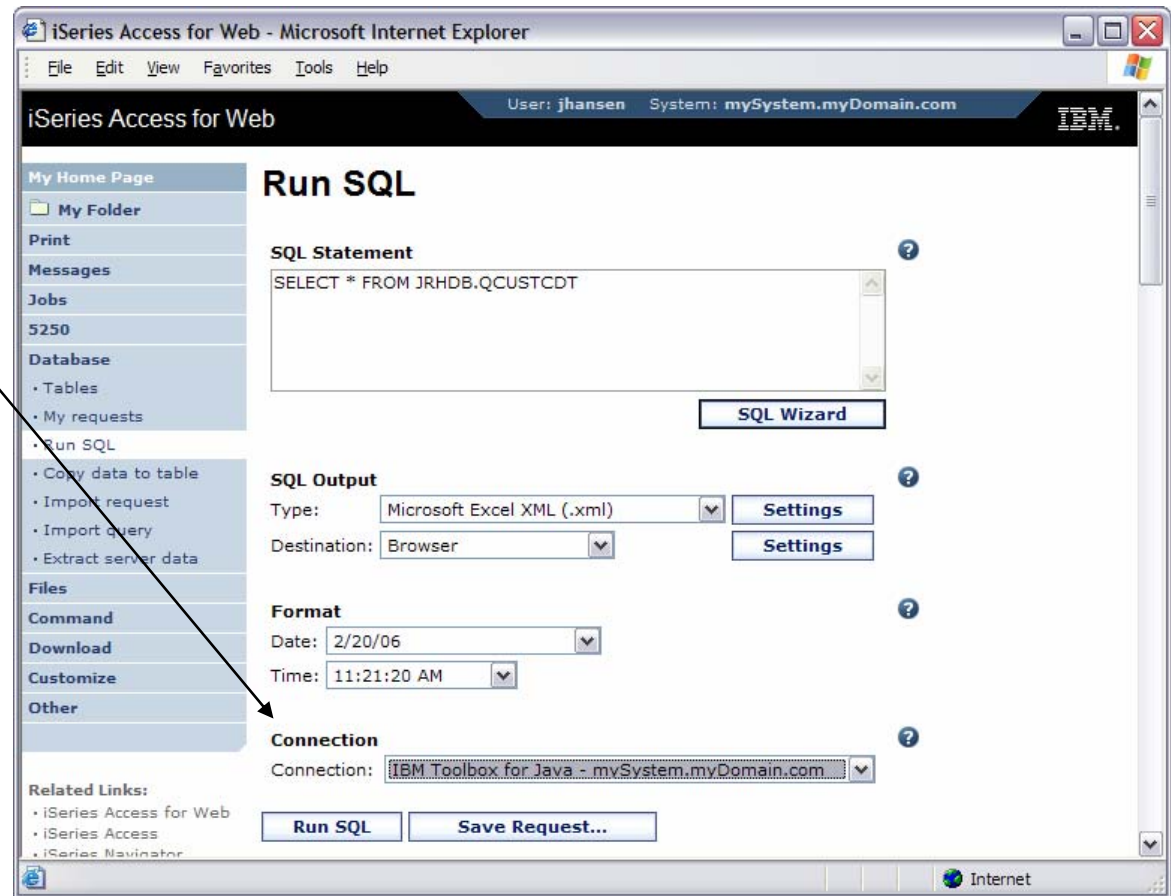
Server

Server:

Port:

Database Connections

- A Database connection defines characteristics of the JDBC connection to the database
 - Target database
 - JDBC driver
 - Other attributes
- System i Access for Web uses the IBM Toolbox for Java JDBC Driver
- Additional database connections are created using Customize function



Adding Database Connections

- Two types of database connection definitions are supported
 - Driver manager
 - Data source
- Data sources are managed by WebSphere and can be used by other applications

The screenshot shows a web browser window titled "iSeries Access for Web - Microsoft Internet Explorer". The browser address bar shows "User: jhansen System: mySystem.myDomain.com". The page title is "iSeries Access for Web". The main content area is titled "Add Database Connection".

The form includes a sidebar on the left with a navigation menu containing: My Home Page, My Folder, Print, Messages, Jobs, 5250, Database, Files, Command, Download, Customize, Preferences, Policies, Settings, Transfer configuration, and Other.

The main form area is titled "Add Database Connection" and includes the following fields and options:

- Profile: JHANSEN
- Connection: ?
- Set as default connection
- Source:
 - Driver manager
 - Driver class: ?
 - JDBC URL: ?
 - Data source
 - Data source: ?
-

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

Database Connection Considerations

- Application Authentication
 - Driver manager connections
 - System i Access for Web always specifies the authenticated user profile and password when getting a connection from the driver manager
 - Credentials can be specified as properties on the JDBC URL for the IBM Toolbox for Java JDBC Driver
 - Override values specified when getting a connection from the driver manager
 - Data source connections
 - System i Access for Web always specifies the authenticated user profile and password when getting a connection from a data source.

Database Connection Considerations (continued)

- Application Server Authentication
 - Driver manager connections
 - Credentials can be specified as properties on the JDBC URL for the IBM Toolbox for Java JDBC Driver
 - If credentials are not specified, System i Access for Web will use identity tokens and EIM
 - Credentials must be specified as properties on the JDBC URL for other drivers
 - Data source connections
 - A component-managed authentication alias must be configured
 - Credentials from the authentication alias are always used

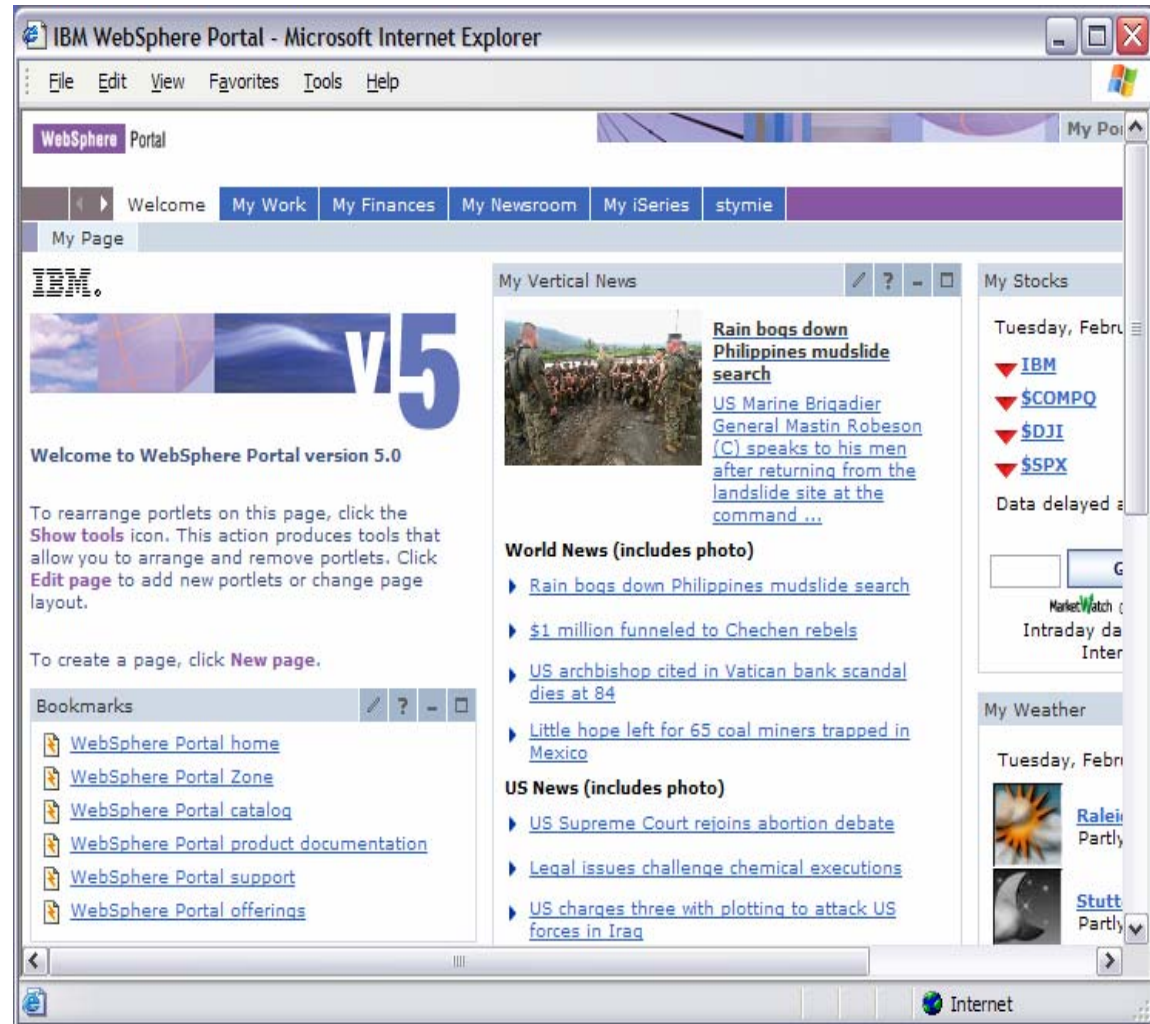
Agenda

System i Access for Web and Portal

- How are things different?

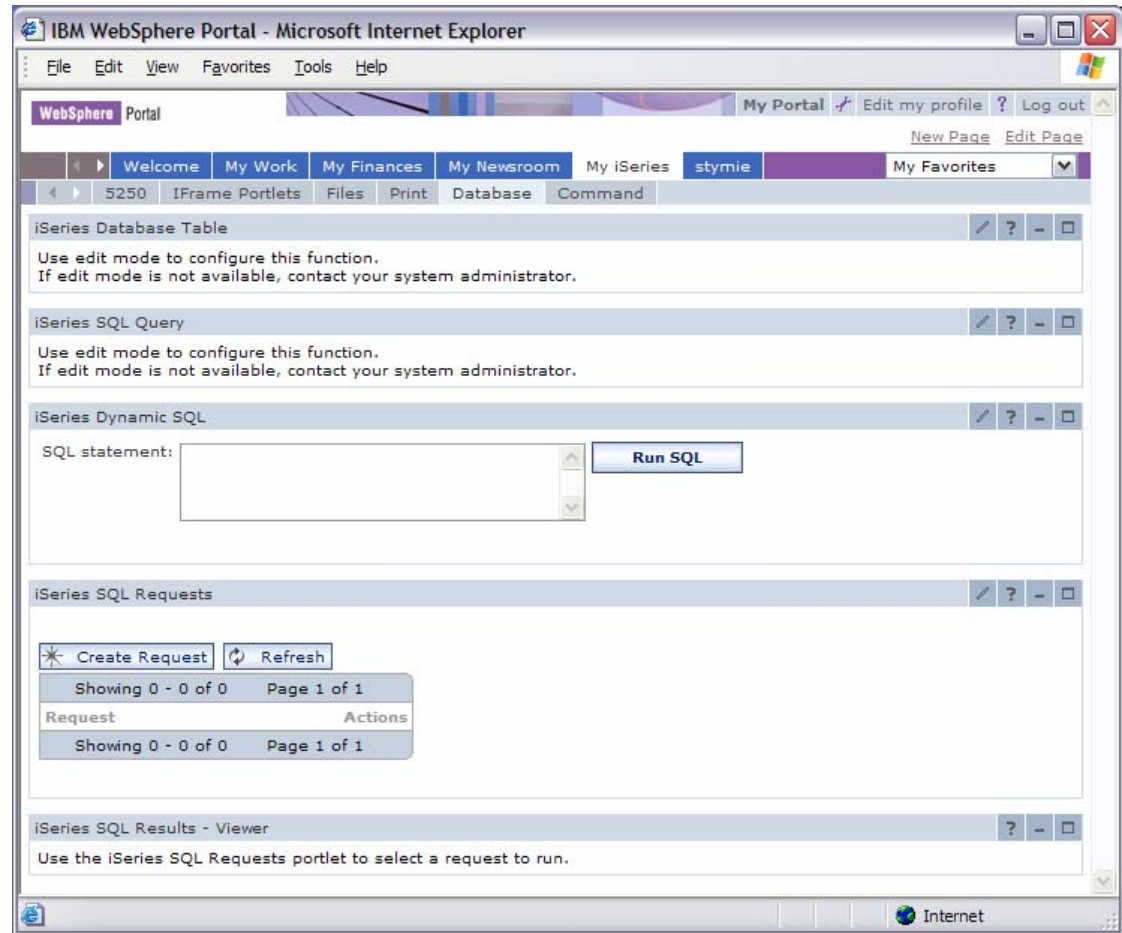
Portal

- Portal provides a single point of personalized interaction with applications, content, processes and people
- Integrate data and applications from various sources into one user experience



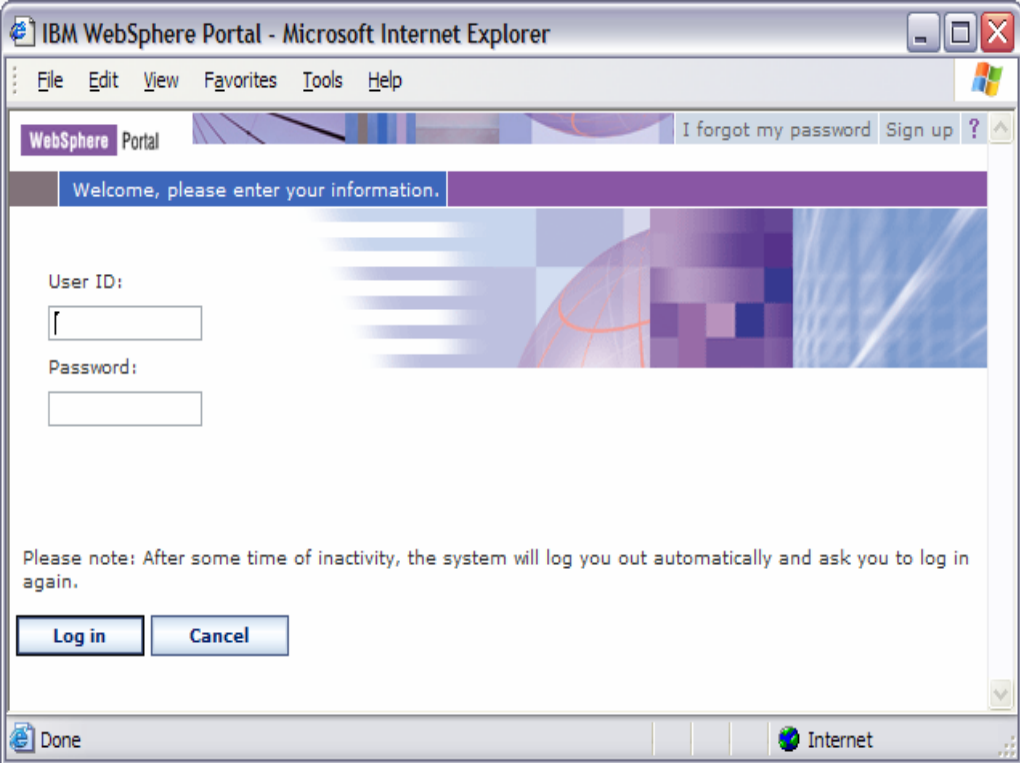
Portal Application

- System i Access for Web portlets integrate access to i5/OS resources in a portal environment
- Function is similar to the web application



Portal Authentication

- Portal handles authentication
- Portal credentials
 - Authenticated with the active user registry
- Form-based authentication
 - User ID and password are clear text and should be protected
- Use Portal interfaces to control access to pages and portlets



The screenshot shows a Microsoft Internet Explorer browser window titled "IBM WebSphere Portal - Microsoft Internet Explorer". The address bar shows "WebSphere Portal" and navigation links for "I forgot my password" and "Sign up". The main content area features a purple header with the text "Welcome, please enter your information." Below this is a form with two input fields: "User ID:" and "Password:". At the bottom of the form, there are two buttons: "Log in" and "Cancel". A note at the bottom of the page states: "Please note: After some time of inactivity, the system will log you out automatically and ask you to log in again." The browser's status bar at the bottom shows "Done" and "Internet".

System i Access for Web Portlet Authentication

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

iSeries File List

Edit Portlet Settings

Server

Server:

Authentication

Use credential specific to this portlet window

User:

Password:

Confirm password:

Use credential set with iSeries Credentials portlet

Credential: ▼

Use system shared credential set by administrator

Credential: ▼

Use authenticated WebSphere credential

Authentication Options

- Use credentials specific to this portlet
 - Specify the i5/OS user profile name and password
 - Specific to this portlet window for this user

- Use credential set with System i Access for Web Credentials portlet
 - Select the name of a credential maintained with the iSeries Credentials portlet
 - Credential contains an i5/OS user profile name and password

Use credential specific to this portlet window

User:
Password:
Confirm password:

Use credential set with iSeries Credentials portlet

Credential:

Use system s

Authentication Options (continued)

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

iSeries Credentials

Credentials Add, Edit and Delete credentials

New credential Refresh

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

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

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

[Change i5/OS password](#)

Use credential set with iSeries Credentials portlet

Credential:

Use system s

Authentication Options (continued)

- WebSphere Portal Credentials Vault administration function

My Portal Administration Edit my profile ? Log out

Credential Vault

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

Portal User Interface

Portlets

Access

- Users and Groups
- Resource Permissions
- User and Group Permissions
- Credential Vault**

Credential Vault

Select Vault

Vault:
 ▼

Create a vault slot

Name:

Vault segment:
 ▼

Vault resource associated with vault slot:

existing: ▼

new:

Vault slot is shared:

Shared userid:

Shared password:

Confirm password:

Description:

Set locale-specific descriptions

Authentication Options (continued)

Use system shared credential set by adm

Credential: deployment.keystore

Use authentic

deployment.keystore
deployment.truststore
deployment.user
myDomain.com

- Use system shared credential set by administrator

- Created and managed by administrator using the WebSphere Portal Credentials Vault administration function

- Common to all portal users

Credential Vault

Select Vault

Vault:

Default

Create a vault slot

Name:

myDomain.com

Vault segment:

DefaultAdminSegment

Vault resource associated with vault slot:



existing: deployment.keystore



new: myDomain.com

Vault slot is shared:

Shared userid:

qsecofr

Shared password:

••••••

Confirm password:

••••••

Description:

myDomain.com




Set locale-specific descriptions

OK

Cancel

Authentication Options (continued)

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

 Use authenticated WebSphere credential

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

5250 Sessions

- Bypass signon
 - QRMTSIGN system value must be *VERIFY
 - Settings to enable bypass signon and specify the credential to use
- No macro support

iSeries 5250 Session

Start Session

Server

Server:

Port:

Code page:

Display HTML data in fields

Workstation ID

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

Start Session

Bypass signon

Enable bypass signon

Use credential specific to this portlet window

User:

Password:

Confirm password:

Use credential set with iSeries Credentials portlet

Credential:

Use system shared credential set by administrator

Credential:

Agenda

System i Access for Web runtime (usage) security

- Use of policies
- Custom homepage/template

Controlling access for System i Access for Web

3 methods using System i Access for Web to control access

- Administration policies
 - Administrators can use the Customize function to set policies for users and groups of users.
- User Preferences
 - Users can set their own Preferences for things like
 - What tabs are available in the navigation bar
 - How to view output (default rows/columns per page)
 - How to filter output
- Customize the Home page and template
 - Administrators can use the Customize function to replace the default System i Access for Web home page with their own home page.
 - Administrators can use the Customize function to replace the default template that defines the layout, look, and feel of System i Access for Web pages
 - Style sheets - The look of the System i Access for Web page content is now controlled by external style sheets.

Controlling access for System i Access for Web

Home page

The screenshot shows a web browser window titled "Homepage" with the address bar displaying "http://myiSeries.myCompany.com/webaccess/WAHome". The page content includes a navigation menu on the left, a main heading "Welcome to iSeries Access for Web", and several informational sections.

My Home Page

- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
- Other

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

Getting Started

My Information

- My Folder
- Printer output
- Display messages
- Start a 5250 session
- Database requests
- Browse files
- Preferences

My View

- See [Customizing iSeries Access for Web](#) to find out how to customize the behavior and look of iSeries Access for Web. Also, find out how to create your own home page!

Related Products

- WebSphere Application Server for iSeries
- WebSphere Development Studio Client for iSeries
- WebSphere Development Studio for iSeries

What is iSeries Access for Web

A new generation of software that enables you to access your iSeries server information and resources through a web browser!

Browser Access to iSeries Server Information

The Internet movement has taken over, and businesses are quickly moving to embrace new technologies through e-business. Since most desktop operating systems come with web browsers, users want an easy way to work with their business-critical i5/OS information and resources through the simple browser user interface that has been designed to be Internet-friendly. Users also are looking for hassle-free access through firewalls. They want access from a variety of platforms, and want no special client code that has to be installed and maintained on their desktop.

Easy Administration

i5/OS administrators are looking for ways to streamline management of user access to information in the enterprise through centrally controlled administration built around i5/OS user profiles. Additionally, administrators want to customize a user's view of the iSeries server, so those not familiar with i5/OS operating environment can easily and productively work with its database and other resources.

Key Capabilities

iSeries Access for Web, a new member of the iSeries Access family of products, provides software that runs in a browser and provides a user-centric, web-based view of iSeries server information and resources. It provides key capabilities, such as:

- Browser access to existing 5250 applications without requiring code changes

Rochester information

- City information
- Movies
- Mayo Clinic

Rochester weather

21:22

- SkyCam

Rochester news

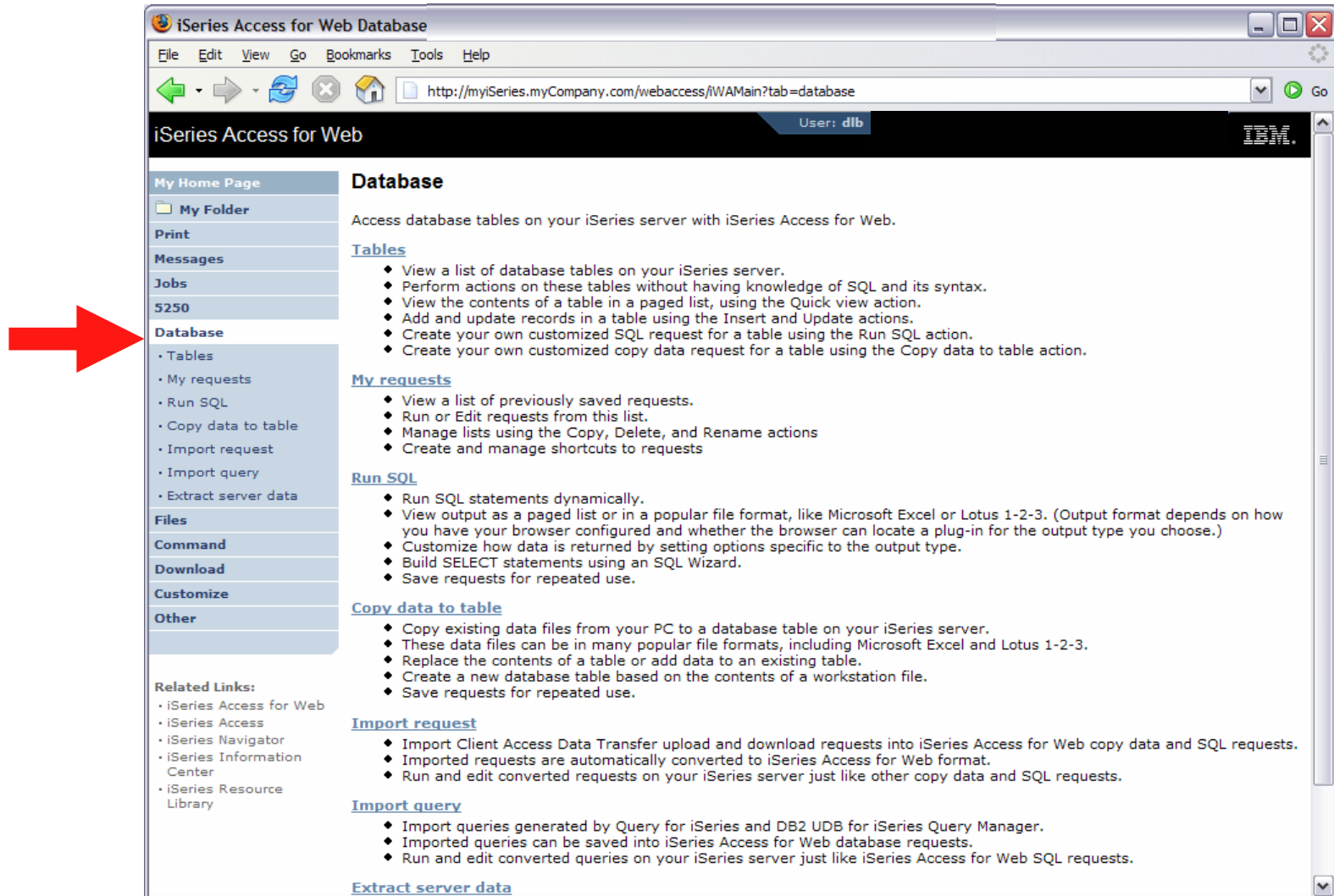
- Post-Bulletin online
- KTTC

Telephone directory

- Find a person
- Find a business

Controlling access for System i Access for Web

Product functionality



The screenshot shows a web browser window titled "iSeries Access for Web Database". The address bar shows the URL "http://myiSeries.myCompany.com/webaccess/iWAMain?tab=database". The user is logged in as "dlb". The main content area is titled "Database" and contains several sections with bullet points:

- Database**: Access database tables on your iSeries server with iSeries Access for Web.
- Tables**:
 - View a list of database tables on your iSeries server.
 - Perform actions on these tables without having knowledge of SQL and its syntax.
 - View the contents of a table in a paged list, using the Quick view action.
 - Add and update records in a table using the Insert and Update actions.
 - Create your own customized SQL request for a table using the Run SQL action.
 - Create your own customized copy data request for a table using the Copy data to table action.
- My requests**:
 - View a list of previously saved requests.
 - Run or Edit requests from this list.
 - Manage lists using the Copy, Delete, and Rename actions.
 - Create and manage shortcuts to requests.
- Run SQL**:
 - Run SQL statements dynamically.
 - View output as a paged list or in a popular file format, like Microsoft Excel or Lotus 1-2-3. (Output format depends on how you have your browser configured and whether the browser can locate a plug-in for the output type you choose.)
 - Customize how data is returned by setting options specific to the output type.
 - Build SELECT statements using an SQL Wizard.
 - Save requests for repeated use.
- Copy data to table**:
 - Copy existing data files from your PC to a database table on your iSeries server.
 - These data files can be in many popular file formats, including Microsoft Excel and Lotus 1-2-3.
 - Replace the contents of a table or add data to an existing table.
 - Create a new database table based on the contents of a workstation file.
 - Save requests for repeated use.
- Import request**:
 - Import Client Access Data Transfer upload and download requests into iSeries Access for Web copy data and SQL requests.
 - Imported requests are automatically converted to iSeries Access for Web format.
 - Run and edit converted requests on your iSeries server just like other copy data and SQL requests.
- Import query**:
 - Import queries generated by Query for iSeries and DB2 UDB for iSeries Query Manager.
 - Imported queries can be saved into iSeries Access for Web database requests.
 - Run and edit converted queries on your iSeries server just like iSeries Access for Web SQL requests.
- Extract server data**

The left-hand navigation menu includes: My Home Page, My Folder, Print, Messages, Jobs, 5250, Database (highlighted with a red arrow), My requests, Run SQL, Copy data to table, Import request, Import query, Extract server data, Files, Command, Download, Customize, Other, and Related Links.

Controlling access for System i Access for Web

Sample for a user that can only run preconfigured database queries

iSeries Access for Web Database [LP016AB.RCHLAND.IBM.COM] - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media

Address <http://myiSeries.myCompany.com/webaccess/iWAMain?tab=database> Go

iSeries Access for Web User: dougb Sy LP016AB.RCHLAND.IBM.COM

Database

Database

- My requests

Access database tables on your iSeries server with iSeries Access for Web.

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

IBM | iSeries | Service 5.4.0.05-191.SI22130

Done Internet

Controlling Access - How & Who?

- The Customize function allows administrators to set policies for users and groups of users.
- These policies control...
 - Functions a user can perform.
 - How certain information is presented to the user.
- When a function is restricted...
 - Its navigation bar content is removed.
 - Access to the servlet is restricted.
 - It takes effect immediately.
- Administrators with *SECADM special authority are automatically authorized to administer settings for users and groups of users to which they have authority.
- These administrators can then grant other user profiles permission to administrate System i Access for Web functions.

Controlling Access - Strategies

- System i Access for Web ships with a set of default policy settings.
- These default policy settings allow most functions to be available for all users.
- As an administrator, you may not want users to access all functions.
- A quick strategy to restrict a function from all users
 - First, grant an administrator to have access to all functions
 - Use the Customize Group Profiles function and customize the *PUBLIC group profile.
 - Every user is a member of this group.
 - You could "Deny" a function for all users to restrict access.
 - You could then "Allow" specific users access to some functions that were restricted.
- Only users that have been allowed access will be able to use that function.

Notes: Controlling Access - Strategies

- System i Access for Web ships with a set of default policy settings. The default policy settings allow most of the System i Access for Web functions to be available for all users. Without any customization, users accessing System i Access for Web could begin using most of the available functions.
- As an administrator of this product, you may not want your users to be able to access all of these functions. It is the responsibility of an administrator to restrict functions they do not want their users to be able to access.
- One of the quickest strategies that can be deployed to restrict a function from all users is to use the Customize Group Profiles function and customize the *PUBLIC group profile.
- This group profile is defined such that every user is a member of this group. So, for example, if you were to customize the *PUBLIC profile and set the "Browse files" and "File shares" file functions to "Deny", you would restrict file system access from this product for all users.
- If some of your users required access to this function, you could specifically customize their user profiles and set this function back to "Allow". In this way, only users that have been specifically allowed access will be able to use that function, all others would not have access.
- It should be noted that the *PUBLIC group profile includes the administrator user ID that is used to customize other group and user profiles. If you were to deny functions for *PUBLIC, this would affect the administrator user profile. As you customize System i Access for Web for *PUBLIC, you may want to consider specifically allowing your administrator user profile to have access so that it is not locked out of System i Access for Web functions.

Controlling Access - Setting policies

Administrator actions on user & group profiles

Action	Description
Edit	This action is always available. Use this option to create or modify policy settings for the specified user or group profile.
View all policies	Select this action to view all of the policy settings currently being used for the profile.
View group membership	Select this action to display the Group Membership page that lists the group and supplemental group profiles (by name) the user profile has been assigned membership.
View group members	Select this action to display the Group Membership page that lists the user profiles (by name) that are currently members of the group profile.
Copy	This action is only available when the user or group profile currently has specific policy settings. It allows you to copy all of the policy settings from this profile to one or more other profiles.
Reset	This action is only available when the user or group profile currently has policy settings. It allows you to remove all of the policy settings specific to this profile.

The screenshot shows the 'Policies' page in the IBM iSeries Access for Web interface. The browser address bar shows the URL: `http://mySeries.myCompany.com/webaccess/WACustomizeList?action=select`. The page title is 'Policies'. The main content area contains the following links and descriptions:

- [User profiles](#): Work with the user profiles you are authorized to customize.
- [Group profiles](#): Work with the group profiles you are authorized to customize.
- [Import policies](#): Import policies from a file into iSeries Access for Web.
- [Export policies](#): Export policies from iSeries Access for Web to a file.
- [Policies help](#): View help for working with policies.

Two red arrows point to the 'User profiles' and 'Group profiles' links. The left navigation menu includes: My Home Page, My Folder, Print, Messages, Jobs, 5250, Database, Files, Command, Download, Customize (Preferences, Policies, Settings, Transfer configuration), and Other. The footer shows 'IBM iSeries Service' and the version number '5.4.0.05-191.S122130'.

Controlling Access - Setting policies (continued)

The screenshot displays the IBM iSeries Access for Web interface. The browser window title is "Policies |". The address bar shows the URL: `http://myiSeries.myCompany.com/webaccess/iWACustomizeList?action=select`. The user is logged in as "User: dlb".

The page is titled "Policies" and contains the following sections:

- My Home Page**
- My Folder**
- Print**
- Messages**
- Jobs**
- 5250**
- Database**
- Files**
- Command**
- Download**
- Customize**
 - Preferences
 - **Policies**
 - Settings
 - Transfer configuration
- Other**

The main content area is titled "Policies" and includes the following text and links:

Specify the profile you want to edit.

Profile:

[User profiles](#)
Work with the user profiles you are authorized to customize.

[Group profiles](#)
Work with the group profiles you are authorized to customize.

[Import policies](#)
Import policies from a file into iSeries Access for Web.

[Export policies](#)
Export policies from iSeries Access for Web to a file.

[Policies help](#)
View help for working with policies.

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

The footer contains "IBM | iSeries | Service" and the version number "5.4.0.05-191.SI22130".

Controlling Access - Setting policies (continued)

The screenshot shows the 'Policies - User Profiles' page in a web browser. The page title is 'Policies - User Profiles'. There is a search bar for 'Profile filter:' and a 'Filter List' button. Below the search bar, there are radio buttons for 'Filter by: Profile' (selected) and 'Description'. A pagination control shows '[1] 2 3 4 5 6 7 8 9 10'. A table lists user profiles with columns for 'Profile', 'Description', and 'Action'. A red arrow points to the 'Action' column header.

Profile	Description	Action
ACBARRON	Alma Carolina Barron Perez - GDL T/L 877-5656	[Edit] [View] [Lock]
ACN	Ali Nelson 3-6874	[Edit] [View] [Lock]
ADSIERRA	Alma Delia Sierra/Mexico/Contr/IBM@IBMMX	[Edit] [View] [Lock] [Print] [Refresh]
AGUEDA	Agueda Martinez Hernandez Magro/Mexico/IBM@IBMMX	[Edit] [View] [Lock]
AHANSON	Andrew Hanson 3-5571	[Edit] [View] [Lock]
AHOMIKE	Mike Aho/Rochester/IBM@IBMUS	[Edit] [View] [Lock]
ALEJ	Alejandro Bascuas/Rochester/IBM@IBMUS	[Edit] [View] [Lock]
ALICIAM	Alicia Martinez Cruz/Mexico/Contr/IBM@IBMMX	[Edit] [View] [Lock] [Print] [Refresh]
ALITEST		[Edit] [View] [Lock]
ANDREWS	Greg Andrews/Rochester/IBM@IBMUS	[Edit] [View] [Lock]
ANTARES	Elias Ricardo Castellanos/Mexico/Contr/IBM@IBMMX	[Edit] [View] [Lock]
ARABIC	Gilberto Martinez Cortes/Mexico/Contr/IBM@IBMMX	[Edit] [View] [Lock]
ATCLARK	Adam Clark, 3-3941	[Edit] [View] [Lock]
ATOMKO	Ana Tomko Sanchez/Mexico/Contr/IBM@IBMMX	[Edit] [View] [Lock]
BAZEY	John Bazey (3-7108)	[Edit] [View] [Lock]
BEACH	Mark Beach/Rochester/IBM@IBMUS	[Edit] [View] [Lock]
BECKYD	Rebecca K Dimock/Boulder/IBM@IBMUS	[Edit] [View] [Lock]

Controlling Access - Setting policies (continued)

Administrator Action on each policy setting

Action	Description
Use current setting	This is the default action that is pre-selected. If the setting is not modified, no action is performed. If the setting is modified, it will be added to the user or group profile record in the System i Access for Web policies file.
Apply setting to profile	Select this action to add the current setting to the user or group profile record in the System i Access for Web policies file. The setting will be written to the user or group profile record, even if it was not modified. You would use this action to ensure the user or group profile gets this setting. This is because a different policy setting may be used based on the user profile being a member of one or more i5/OS group profiles.
Reset to default	Select this action to remove the setting from the user or group profile record in the System i Access for Web policies file. This option is only available if the user or group profile record currently contains a specific setting for this policy.

Controlling Access - Setting policies (continued)

The "Derived From" column (displayed when editing policy and preference settings) indicates where the policy setting that will be used for this user profile was found.

Action	Description
Profile setting	Indicates the setting is currently specific to the profile being customized. The setting had previously been applied to this profile.
Group – (groupName)	Indicates the setting is not specific to the profile being customized, but is being derived from the specified i5/OS group profile and the user is a member of this group.
*PUBLIC setting	Indicates the setting is not specific to the profile being customized. No setting was found in any i5/OS group profile memberships. The setting is being derived from the *PUBLIC group settings. This is a special group profile available to System i Access for Web administrators. All user profiles are automatically members of this special group profile. Administrators can modify this group profile to easily apply settings to all System i Access for Web users.
Shipped default	Indicates the setting is not specific to the profile being customized, no setting was found in any i5/OS group profile memberships, or the special *PUBLIC group profile. The setting is being derived from a shipped default value.
Parent policy	Indicates the function is a sub-function of a higher level category, and its policy setting is being controlled by a top level policy setting. For example, Tables is a sub-function of Database. If Database is restricted, Tables will be restricted as well and would show its being controlled by a parent policy.

Controlling Access - Setting policies (continued)

Edit Policies - Database

Profile: **DLB**

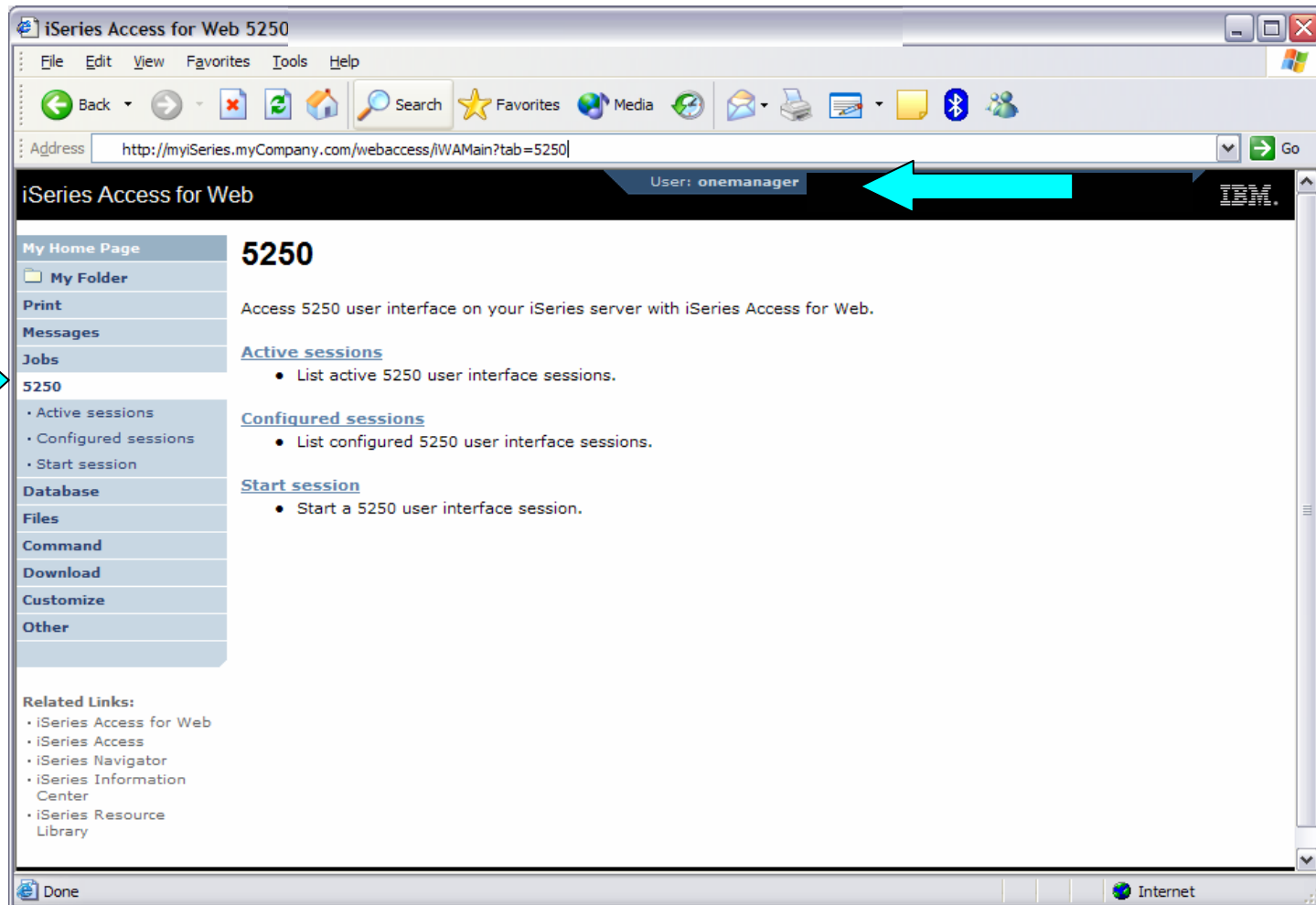
Policy	Derived From ?	Action ?	Setting
Database access	Shipped default	Use current setting ▼	Allow ▼
Database tab	Shipped default	Use current setting ▼	Show ▼
Tables	Shipped default	Use current setting ▼	Allow ▼
Maximum table rows	Shipped default	Use current setting ▼	500 ▼
Table filter	Shipped default	Use current setting ▼	*USRLIBL
Table filter is user preference	Shipped default	Use current setting ▼	Allow ▼
Insert records into table	Shipped default	Use current setting ▼	Allow ▼
Insert record columns	Shipped default	Use current setting ▼	Columns...
Update records in table	Shipped default	Use current setting ▼	Allow ▼
Update record columns	Shipped default	Use current setting ▼	Columns...
Quick view table records	Shipped default	Use current setting ▼	Allow ▼
Maximum quick view rows	Shipped default	Use current setting ▼	1000 ▼
Order	Shipped default	Use current setting ▼	No ▼

Example: 5250 Access

- The following screen shots step through setting up the items necessary to allow a group of users to use a single pre-configured 5250 session.
- In this example, ONEMANAGER is one of the user profiles in the MANAGERS group.
- This example shows
 - Creating a 5250 session configuration to be used by the management team
 - Making a shortcut of the 5250 session available to the MANAGERS group profile.
 - Restricting access to other functions in System i Access for Web.
- When the policy is set, it takes effect immediately.

Example: 5250 Access - Before

- Access the 5250 tab System i Access for Web Main page as user ONEMANAGER.



Example: 5250 Access - Policies

- Policies - the starting point for customization of a specific user or group.
- This is a new browser session, where we signed on as an administrator.

The screenshot displays a web browser window titled "Policies" with the URL `http://myiSeries.myCompany.com/webaccess/iWACustomizeList`. The user is logged in as "User: dlb". The main content area is titled "Policies" and contains the following text:

Specify the profile you want to edit.

Profile:

[User profiles](#)
Work with the user profiles you are authorized to customize.

[Group profiles](#)
Work with the group profiles you are authorized to customize.

[Import policies](#)
Import policies from a file into iSeries Access for Web.

[Export policies](#)
Export policies from iSeries Access for Web to a file.

[Policies help](#)
View help for working with policies.

The left sidebar contains the following navigation links:

- My Home Page
- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
 - Preferences
 - Policies
 - Settings
 - Transfer configuration
- Other

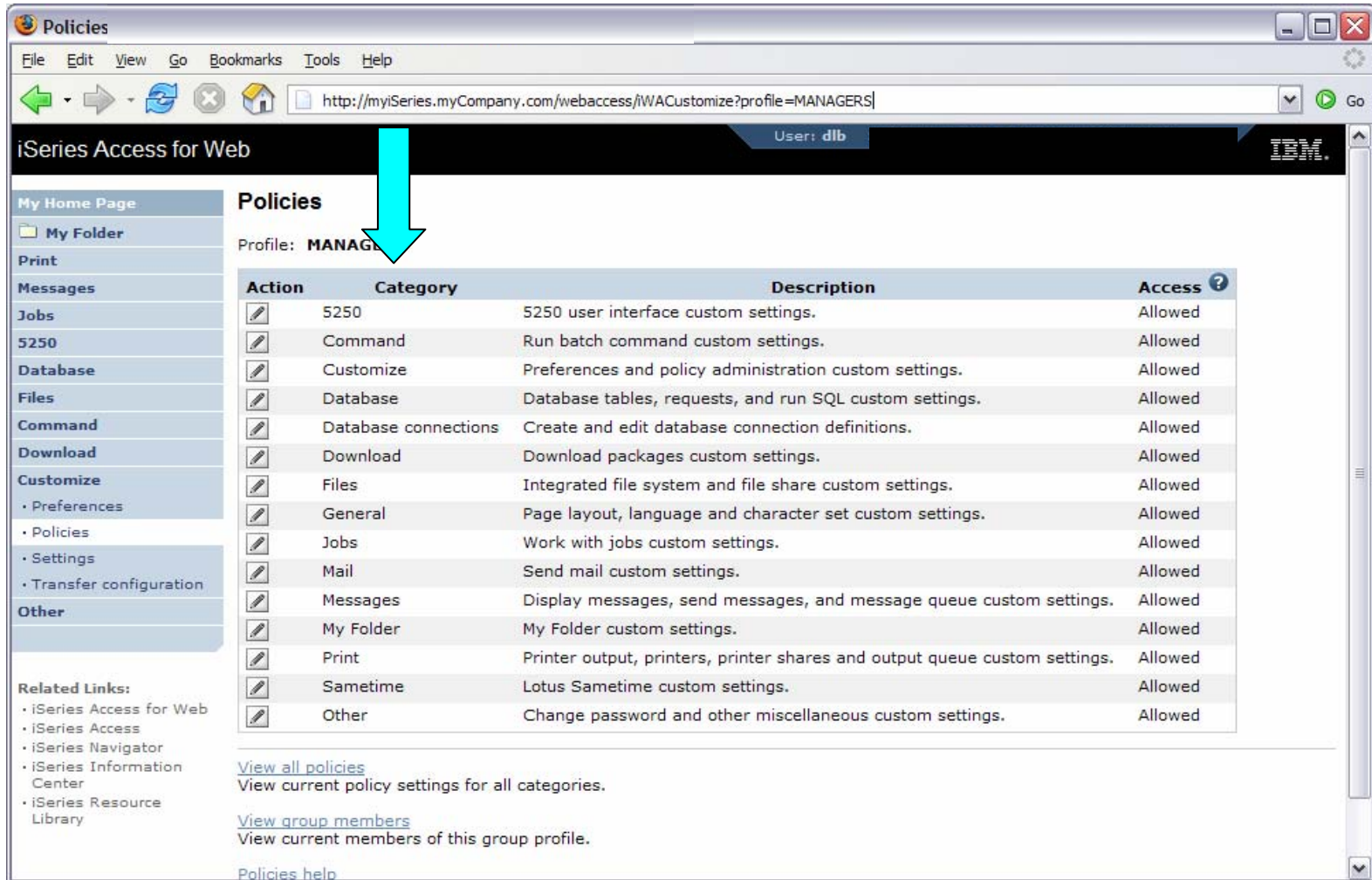
Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

The footer shows "IBM | iSeries | Service" and the version number "5.4.0.05-191.SI22130".

Example: 5250 Access - Categories

- Determine which categories need to be restricted/modified.



The screenshot shows the 'Policies' page in a web browser. The browser address bar shows the URL: `http://myiSeries.myCompany.com/webaccess/iWACustomize?profile=MANAGERS`. The page title is 'Policies' and the user is identified as 'User: d1b'. A red arrow points to the '5250' category in the table below.

Action	Category	Description	Access
	5250	5250 user interface custom settings.	Allowed
	Command	Run batch command custom settings.	Allowed
	Customize	Preferences and policy administration custom settings.	Allowed
	Database	Database tables, requests, and run SQL custom settings.	Allowed
	Database connections	Create and edit database connection definitions.	Allowed
	Download	Download packages custom settings.	Allowed
	Files	Integrated file system and file share custom settings.	Allowed
	General	Page layout, language and character set custom settings.	Allowed
	Jobs	Work with jobs custom settings.	Allowed
	Mail	Send mail custom settings.	Allowed
	Messages	Display messages, send messages, and message queue custom settings.	Allowed
	My Folder	My Folder custom settings.	Allowed
	Print	Printer output, printers, printer shares and output queue custom settings.	Allowed
	Sametime	Lotus Sametime custom settings.	Allowed
	Other	Change password and other miscellaneous custom settings.	Allowed

Below the table, there are two links:

- [View all policies](#)
View current policy settings for all categories.
- [View group members](#)
View current members of this group profile.

At the bottom left, there is a link for [Policies help](#).

Example: 5250 Access – Other

- Turn off the other non-5250 functions. Set top level to Deny.
- Repeat for each category that should be restricted for the MANAGERS group.

The screenshot shows the 'Edit Policies - Command' interface for the 'MANAGERS' profile. The interface includes a navigation menu on the left and a main table of policies. A red arrow points to the 'Setting' dropdown for the 'Command access' policy, which is currently set to 'Allow' and has 'Deny' selected.

Policy	Derived From	Action	Setting
Command access	Profile setting	Use current setting	Allow (Deny selected)
Command tab	Shipped default	Use current setting	Allow
My commands	Shipped default	Use current setting	Allow
Prompt commands	Shipped default	Use current setting	Allow
Retrieve commands	Shipped default	Use current setting	Allow
Delete commands	Shipped default	Use current setting	Allow
Maximum commands user can save	Shipped default	Use current setting	No maximum
My commands list columns	Shipped default	Use current setting	Columns...
My commands sort column	Shipped default	Use current setting	Name
My commands sort order	Shipped default	Use current setting	Ascending
Maximum characters to display in Command column	Shipped default	Use current setting	No maximum
Run commands	Shipped default	Use current setting	Allow
Number of previous commands remembered	Shipped default	Use current setting	20
Search for commands	Shipped default	Use current setting	Allow
Default search library	Shipped default	Use current setting	*LIBL
Search for commands by	Shipped default	Use current setting	Command name

Example: 5250 Access – Functional Setup

- The administrator goes to the Configured Sessions link on the 5250 tab. Select the “Configure new session” link.

Configured Sessions

File Edit View Go Bookmarks Tools Help

http://myiSeries.myCompany.com/webaccess/iWAConfiguredSessions

User: dlb

iSeries Access for Web

Configured Sessions

Session	Server	Action	Shortcut	Created By	Access
---------	--------	--------	----------	------------	--------

[Configure new session](#)
Configure a new session.

[Shortcuts to sessions you configured](#)
Display a list of shortcuts to sessions you configured. Shortcuts can be deleted from this list.

[Active sessions](#)
Work with your active sessions.

[Start session](#)
Start a new session.

[My macros](#)
Work with your macros.

[My keypads](#)
Work with your keypads.

[5250 user interface help](#)
View help for working with configured sessions.

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

IBM | iSeries | Service

5.4.0.05-191.SI22130

Example: 5250 Access – Functional Setup

- The administrator configures the 5250 session settings to be used by the managers.
- Settings include the server to connect to, color schemes, and many other options.

The screenshot shows a web browser window titled "Configure New Session" with the URL "http://myiSeries.myCompany.com/webaccess/iWAConfigSession". The page is for "iSeries Access for Web" and the user is "dlb".

Configure New Session

General

Session: ←

Default view: ▼

Initial macro: ▼

Bypass signon

Display HTML data in fields

Enable advanced JavaScript functions

Server

Server: ←

Port:

Code page: ▼

Workstation ID

Use user ID

Specify workstation ID

Avoid duplicates for this user

Avoid duplicates with other users

View

Web	Traditional
<input checked="" type="checkbox"/> Show navigation bar	<input checked="" type="checkbox"/> Show navigation bar
<input checked="" type="checkbox"/> Show action links	<input checked="" type="checkbox"/> Show action links

Example: 5250 Access – Functional Setup

- The saved session is only available to the administrator that is currently signed on.
- The session must be shared to the managers. Use the “Create Shortcut” action.

Configured Sessions

File Edit View Go Bookmarks Tools Help

http://myiSeries.myCompany.com/webaccess/iWAConfiguredSessions

iSeries Access for Web User: dlb

Configured Sessions

Session	Server	Action ?	Shortcut	Created By	Access
ManagerSession	myiSeries.myCompany.com		No	dlb	dlb

[Configure new session](#)
Configure a new session.

[Shortcuts to sessions you configured](#)
Display a list of shortcuts to sessions you configured. Shortcuts can be deleted from this list.

[Active sessions](#)
Work with your active sessions.

[Start session](#)
Start a new session.

[My macros](#)
Work with your macros.

[My keypads](#)
Work with your keypads.

[5250 user interface help](#)
View help for working with configured sessions.

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

IBM | iSeries | Service 5.4.0.05-191.SI22130

Example: 5250 Access – Functional Setup

- Name the shortcut whatever you wish.
- Session can be shared with MANAGERS group, *PUBLIC, or individual profiles.

Create Shortcut

Create shortcut to "ManagerSession"

Shortcut name:

Access: **Add...**

Create Shortcut

Access Details

- ◆ 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.
- ◆ To specify multiple profiles, separate entries with commas.

[Configured sessions](#)
Work with your configured sessions.

[Active sessions](#)
Work with your active sessions.

[Start session](#)
Start a new session.

[My macros](#)
Work with your macros.

[My keypads](#)
Work with your keypads.

[5250 user interface help](#)
View help for working with configured sessions.

Example: 5250 Access – Back to Customize

- Go back to 5250 in Customize – Policies for the MANAGERS group profile.
- Select the shortcut to use as the default session settings for the MANAGERS.
- Select settings to lock MANAGERS out of starting/configuring new sessions.

Edit Policies - 5250

Profile: **MANAGERS**

Policy	Derived From	Action	Setting
5250 access	Shipped default	Use current setting	Allow
5250 tab	Shipped default	Use current setting	Show
Start non-configured sessions	Shipped default	Use current setting	Deny
Prompt when starting non-configured sessions	Shipped default	Use current setting	Yes
Show server name in title	Shipped default	Use current setting	Yes
Show configured session name in title	Shipped default	Use current setting	No
Maximum active sessions	Shipped default	Use current setting	No maximum
Inactive session timeout	Shipped default	Use current setting	24 hours
Active sessions list columns	Shipped default	Use current setting	Columns...
Configured session to use for defaults	Shipped default	Use current setting	User defaults
Save settings as user defaults	Shipped default	Use current setting	User defaults
Load settings from user defaults	Shipped default	Use current setting	Managers5250 for MANAGERS
Load settings from shipped defaults	Shipped default	Use current setting	Allow
Switch between Web/Traditional views	Shipped default	Use current setting	Allow
Edit active session settings	Shipped default	Use current setting	Allow
Bypass signon	Shipped default	Use current setting	Allow
Display HTML data in fields	Shipped default	Use current setting	Allow

Example: 5250 Access – More 5250 Settings

- Set all 5250 policies to Deny, except Configured Sessions and Start Configured Sessions.
- You may also want to allow them to access My Keypads and My Macros.

The screenshot shows a web browser window titled "Edit Policies - 5250". The address bar contains the URL: <http://mySeries.myCompany.com/webaccess/IWACustomize5250?retURL=http%3a%2f%2fp016ab.rchland.ibm.com%3a2016%2fwebacce>. The main content area is a table with the following columns: Policy Name, Profile setting, Profile setting dropdown, Action dropdown, and Help icon. The table lists various 5250 policies, with most set to "Deny" and a few to "Allow".

Policy Name	Profile setting	Profile setting dropdown	Action dropdown	Help icon
Configured sessions	Shipped default	Use current setting	Allow	?
Create configured session	Shipped default	Use current setting	Deny	?
Start configured session	Shipped default	Use current setting	Allow	?
Copy configured session	Shipped default	Use current setting	Deny	?
Delete configured session	Shipped default	Use current setting	Deny	?
Rename configured session	Shipped default	Use current setting	Deny	?
Edit configured session	Shipped default	Use current setting	Deny	?
List configured session shortcuts	Shipped default	Use current setting	Deny	?
Create configured session shortcut	Shipped default	Use current setting	Deny	?
Copy configured session shortcut	Shipped default	Use current setting	Deny	?
Delete configured session shortcut	Shipped default	Use current setting	Deny	?
Rename configured session shortcut	Shipped default	Use current setting	Deny	?
Configured sessions list columns	Shipped default	Use current setting	Columns...	?
My keypads	Shipped default	Use current setting	Allow	?
My macros	Shipped default	Use current setting	Allow	?
Record macro	Shipped default	Use current setting	Allow	?
Play macro	Shipped default	Use current setting	Allow	?
Play initial macro	Shipped default	Use current setting	Allow	?
Copy macro	Shipped default	Use current setting	Allow	?
Delete macro	Shipped default	Use current setting	Allow	?
Rename macro	Shipped default	Use current setting	Allow	?
Edit macro	Shipped default	Use current setting	Allow	?
List macro shortcuts	Shipped default	Use current setting	Allow	?

Example: 5250 Access – After

- Now managers can only start a pre-configured 5250 session, or reconnect to an active session

The screenshot displays the 'Configured Sessions' page in the iSeries Access for Web interface. The user is logged in as 'onemanager'. The page shows a table of configured sessions:

Session	Server	Action	Shortcut	Created By	Access
Managers5250	myiSeries.myCompany.com		Yes	dlb	MANAGERS

Below the table, there are links for 'Active sessions', 'My macros', 'My keypads', and '5250 user interface help'. The footer of the page shows 'IBM | iSeries | Service' and the version '5.4.0.05-191.SI22130'.

Controlling access to integrated e-mail

- System i Access for Web allows you to e-mail...
 - Database query results, printer output PDFs, command completion notifications, etc.
 - E-mail notifications can also be sent when items are placed into personal folders.
- Using the Mail function...
 - Users must first have an email address configured for their user profile. The administrator may configure this or allow users to configure their own email address in the Mail policy settings.
 - The administrator must also specify the name of the SMTP mail server to be used by the user profile or group in the Mail policy settings.
 - If the user has an SMTP user ID and SMTP domain defined in an i5/OS directory entry, those values will be used, unless other values are entered into the System i Access for Web policy settings.
 - Individual users may be restricted from using the Mail function within policy settings.

New for V5R4

- Style sheet support
 - Allows look-and-feel customization of System i Access for Web content
- Transfer configuration data from one user to another
 - Move and copy operations supported for:
 - 5250 sessions and macros
 - Saved commands
 - Database requests
 - My Folder items
 - Policies
- New home page support
 - Usable navigation content
 - Update information and product links
- New product look
 - Using cascading style sheet shipped with product
 - Action links are now images

Transfer Configuration Data

The screenshot displays the IBM iSeries Access for Web interface. The browser window title is "Transfer Configuration Data" and the address bar shows the URL "http://myiSeries.myCompany.com/webaccess/IWATransferCfg". The user is logged in as "dlb".

Navigation Menu (Left):

- My Home Page
- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
 - Preferences
 - Policies
 - Settings
 - Transfer configuration
- Other

Main Content Area:

Transfer Configuration Data

Profiles ?

From profile: **Browse...**

To profile: **Browse...**

Action to Perform ?

Copy

Move

Data to Transfer ?

- 5250 sessions
- 5250 macros
- Commands
- Database requests
- Folder items
- Policies

Transfer Data

[Transfer configuration data help](#)
View help for transferring configuration data.

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

Footer: IBM | iSeries | Service 5.4.0.05-191.SI22130

Home Page Customization

- A default home page is displayed when the iWAHome servlet is invoked.
 - <http://<mySystem.myCompany.com>/webaccess/iWAHome>
 - It's a starting point to highlight functions.
 - It's an example of how to build your own home page or pages that access System i Access for Web functionality.
- The Customize function allows you to replace the default home page.
- Default home page replacement can be done for all users (*PUBLIC), or can be changed for only certain users and/or groups of users.
- Additional Information
 - "Build a quick and easy Web site with System i Access for Web" - Janet Weber
 - http://www.ibm.com/servers/eserver/series/access/pdf/build_website_article.pdf
 - iSeries 400 Experts Journal
 - iSeries News article

Template file customization

- System i Access for Web has a default look for its functional pages.
 - This look is controlled by a template file and cascading style sheet.
- The template file has sections to specify
 - Header/footer areas of functional pages.
 - Where System i Access for Web content is placed in the page.
- The Customize function allows you to replace the default template file.
- Default template file replacement can be done for all users (*PUBLIC), or can be changed only for certain users and/or groups of users.

HomePage before – iWAHome servlet

Homepage

File Edit View Go Bookmarks Tools Help

http://mySeries.myCompany.com/webaccess/iWAHome

iSeries Access for Web User: dlb

Welcome to iSeries Access for Web

My Home Page

- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
- Other

Related Links:

- iSeries Access for Web
- iSeries Access
- iSeries Navigator
- iSeries Information Center
- iSeries Resource Library

Getting Started

My Information

- My Folder
- Printer output
- Display messages
- Start a 5250 session
- Database requests
- Browse files
- Preferences

My View

- See [Customizing iSeries Access for Web](#) to find out how to customize the behavior and look of iSeries Access for Web. Also, find out how to create your own home page!

Related Products

- [WebSphere Application Server for iSeries](#)
- [WebSphere Development Studio Client for iSeries](#)
- [WebSphere Development Studio for iSeries](#)

What is iSeries Access for Web

A new generation of software that enables you to access your iSeries server information and resources through a web browser!

Browser Access to iSeries Server Information

The Internet movement has taken over, and businesses are quickly moving to embrace new technologies through e-business. Since most desktop operating systems come with web browsers, users want an easy way to work with their business-critical i5/OS information and resources through the simple browser user interface that has been designed to be Internet-friendly. Users also are looking for hassle-free access through firewalls. They want access from a variety of platforms, and want no special client code that has to be installed and maintained on their desktop.

Easy Administration

i5/OS administrators are looking for ways to streamline management of user access to information in the enterprise through centrally controlled administration built around i5/OS user profiles. Additionally, administrators want to customize a user's view of the iSeries server, so those not familiar with i5/OS operating environment can easily and productively work with its database and other resources.

Key Capabilities

iSeries Access for Web, a new member of the iSeries Access family of products, provides software that runs in a browser and provides a user-centric, web-based view of iSeries server information and resources. It provides key capabilities, such as:

- Browser access to existing 5250 applications without requiring code changes
- Easy access to DB2(R) Universal Database(TM) (UDB) for iSeries information through stored SQL requests
- A simple interface to work with information in the Integrated File System, including file download and view

Rochester information

- City information
- Movies
- Mayo Clinic

Rochester weather

10 F

- SkyCam

Rochester news

- Post-Bulletin online
- KTTC

Telephone directory

- Find a person
- Find a business

HomePage after – iWAHome servlet

Homepage

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Refresh Print Mail Bluetooth

Address http://mySeries.myCompany.com/webaccess/iWAHome Go

User: commonuser

Spring 2006 Conference & Expo COMMON A RED GROUP

Welcome to iSeries Access for Web

Getting Started

My Information

- [My Folder](#)
- [Printer output](#)
- [Display messages](#)
- [Start a 5250 session](#)
- [Database requests](#)
- [Browse files](#)
- [Preferences](#)

My View

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Related Products

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- [WebSphere Development Studio Client for iSeries](#)
- [WebSphere Development Studio for iSeries](#)

Rochester information

- ↳ [City information](#)
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My Home Page

- My Folder
- Print
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Download
- Customize
- Other

Related Links:

- [iSeries Access for Web](#)
- [iSeries Access](#)
- [iSeries Navigator](#)
- [iSeries Information Center](#)
- [iSeries Resource Library](#)

Done Internet

http://<system>/webaccess/iWAHome

Homepage

File Edit View Go Bookmarks Tools Help

Address: http://mySeries.myCompany.com/webaccess/iWAHome

User: db

Welcome to iSeries Access for Web

Getting Started

My Information

- My Folder
- Printer output
- Display messages
- Start a 5250 session
- Database requests
- Browse files
- Preferences

My View

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Homepage

File Edit View Favorites Tools Help

Address: http://mySeries.myCompany.com/webaccess/iWAHome

User: commonuser

Welcome to iSeries Access for Web

Getting Started

My Information

- My Folder
- Printer output
- Display messages
- Start a 5250 session
- Database requests
- Browse files
- Preferences

My View

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- WebSphere Development Studio Client for iSeries
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SkyCam

Rochester news

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- KTTC

Telephone directory

- Find a person
- Find a business

HomePage after – iWAHome (another example)

Access for Water - Microsoft Internet Explorer

File Edit View Favorites Tools Help


Address http://<system>/webaccess/iWAHome

Access for Water *Supplying quality boats since 2002*

Services

- [View available boats](#)
- [See boat details](#)
- [Order a boat](#)

This Week's Special



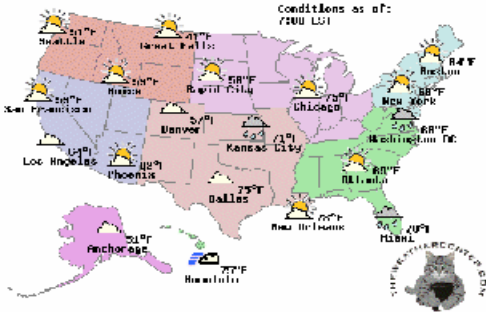
Beautifully maintained 28 foot 1978 Carver Santa Cruz for only \$23,900. Head and galley refurbished in 2001. Only 31 hours on completely rebuilt motor. Click [here](#) to see this boat cruising the seas.

Site Support

Your comments are important to us. Please let us know if you have any questions or if we can help you in any way. Address your message to user BOATHELP. [Send us a message](#)

Weather Conditions

Is it a great day for boating? Check out today's forecast.



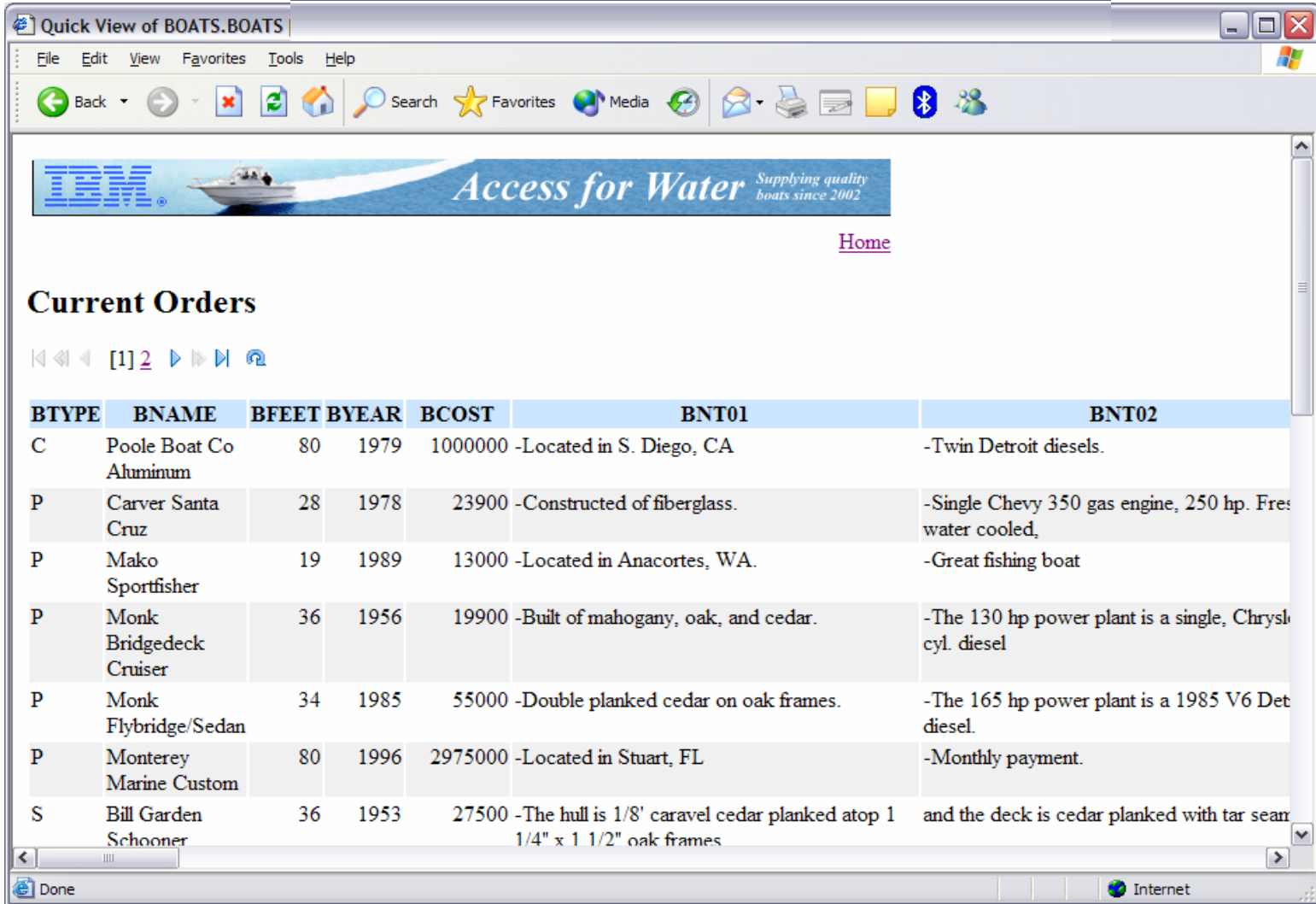
Great Deals

For those bargain conscious among you, we have a large selection of new and slightly used boats for under \$75,000. Whether you are planning on sailing in your backyard pond or navigating the mighty Mississippi we can meet your wants, needs, or desires. [View our selection of modestly priced boats.](#)

IBM | [iSeries](#) | [Service](#)

Home Page/Template Customization Example (continued)

- Custom template



Quick View of BOATS.BOATS

File Edit View Favorites Tools Help

Back Search Favorites Media

Access for Water *Supplying quality boats since 2002*

[Home](#)

Current Orders

« [1] 2 »

BTYPE	BNAME	BFEET	BYEAR	BCOST	BNT01	BNT02
C	Poole Boat Co Aluminum	80	1979	1000000	-Located in S. Diego, CA	-Twin Detroit diesels.
P	Carver Santa Cruz	28	1978	23900	-Constructed of fiberglass.	-Single Chevy 350 gas engine, 250 hp. Fresh water cooled,
P	Mako Sportfisher	19	1989	13000	-Located in Anacortes, WA.	-Great fishing boat
P	Monk Bridgedeck Cruiser	36	1956	19900	-Built of mahogany, oak, and cedar.	-The 130 hp power plant is a single, Chrysler cyl. diesel
P	Monk Flybridge/Sedan	34	1985	55000	-Double planked cedar on oak frames.	-The 165 hp power plant is a 1985 V6 Detroit diesel.
P	Monterey Marine Custom	80	1996	2975000	-Located in Stuart, FL	-Monthly payment.
S	Bill Garden Schooner	36	1953	27500	-The hull is 1/8' caravel cedar planked atop 1/4" x 1 1/2" oak frames	and the deck is cedar planked with tar seam

Done Internet

Additional Information

- Product web site
 - URL: <http://www.ibm.com/eserver/iseriess/access/web/>
 - Latest information, articles, FAQs, fix information
- Information Center, Version 5 Release 4
 - URL: <http://www.ibm.com/eserver/iseriess/infocenter/>
 - Connecting to iSeries, iSeries Access, iSeries Access for Web
- WebSphere Application Server for i5/OS information
 - URL: <http://www.ibm.com/eserver/iseriess/software/websphere/wsappserver>
- Product help
 - Available on System i Access for Web pages

Additional Information

Application Server Authentication: WebSphere Global Security

- The following charts provide additional information on configuring WebSphere Application Server global security

Application Server Authentication WebSphere with Global Security Enabled

- Refer to the WebSphere Information Center for details
 - Search for “configuring global security”



Global security

Global security

Specifies the global security configuration for a managed domain. The following steps are required to turn on security: 1. Configure the desired user registry listed under User registries and set its properties. 2. Select the Enable global security option on this panel. 3. Select the configured user registry type from the Active user registry option on this panel.

Configuration

General Properties

- Enable global security
- Enforce Java 2 security
- Enforce fine-grained JCA security
- Use domain-qualified user IDs

* Cache timeout

600 seconds

User registries

- [Custom](#)
- [LDAP](#)
- [Local OS](#)

Authentication

- ☐ Authentication mechanisms
 - [LTPA](#)

Application Server Authentication WebSphere with Global Security Enabled (continued)

- Configure the active user registry
 - Lightweight Third Party Authentication (LTPA)
 - Enable Single Signon (SSO)
 - Additional properties of LTPA configuration

[Global security](#) > LDAP User Registry

Configuration

General Properties

* Server user ID

* Server user password

Type

[Global security](#) > LTPA

Configuration

General Properties

* Password

* Confirm password

Additional Properties

- [Single signon \(SSO\)](#)
- [Trust association](#)

User registries

- [Custom](#)
- [LDAP](#)
- [Local OS](#)

Authentication

- Authentication mechanisms
 - [LTPA](#)
- Authentication protocol
- JAAS Configuration

Application Server Authentication WebSphere with Global Security Enabled (continued)

- Configure global security settings

- Enable global security
- Active authentication mechanism
- Active user registry

Global security

Configuration

General Properties

Enable global security

Enforce Java 2 security

Enforce fine-grained JCA security

Use domain-qualified user IDs

* Cache timeout
600 seconds

Issue permission warning

Active protocol
CSI and SAS

Active authentication mechanism
Lightweight Third Party Authentication (LTPA)

Active user registry
Lightweight Directory Access Protocol (LDAP) user registry

Use the Federal Information Processing Standard (FIPS)

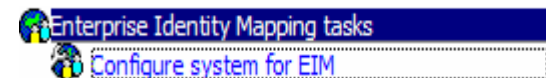
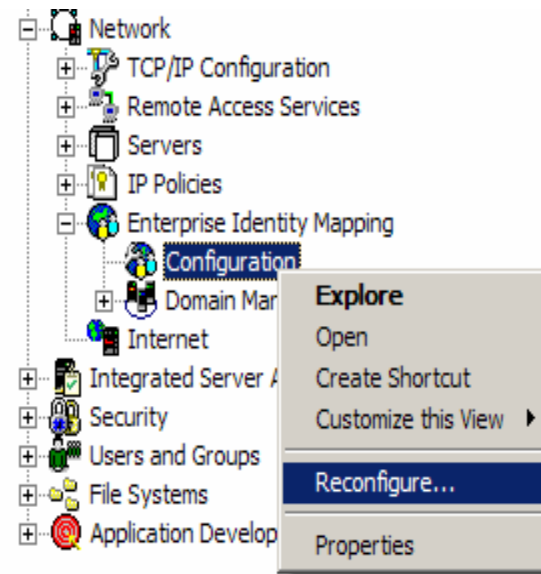
Additional Information

Application Server Authentication: EIM domain configuration

- The following charts provide additional information on Enterprise Identity Mapping (EIM) domain configuration.

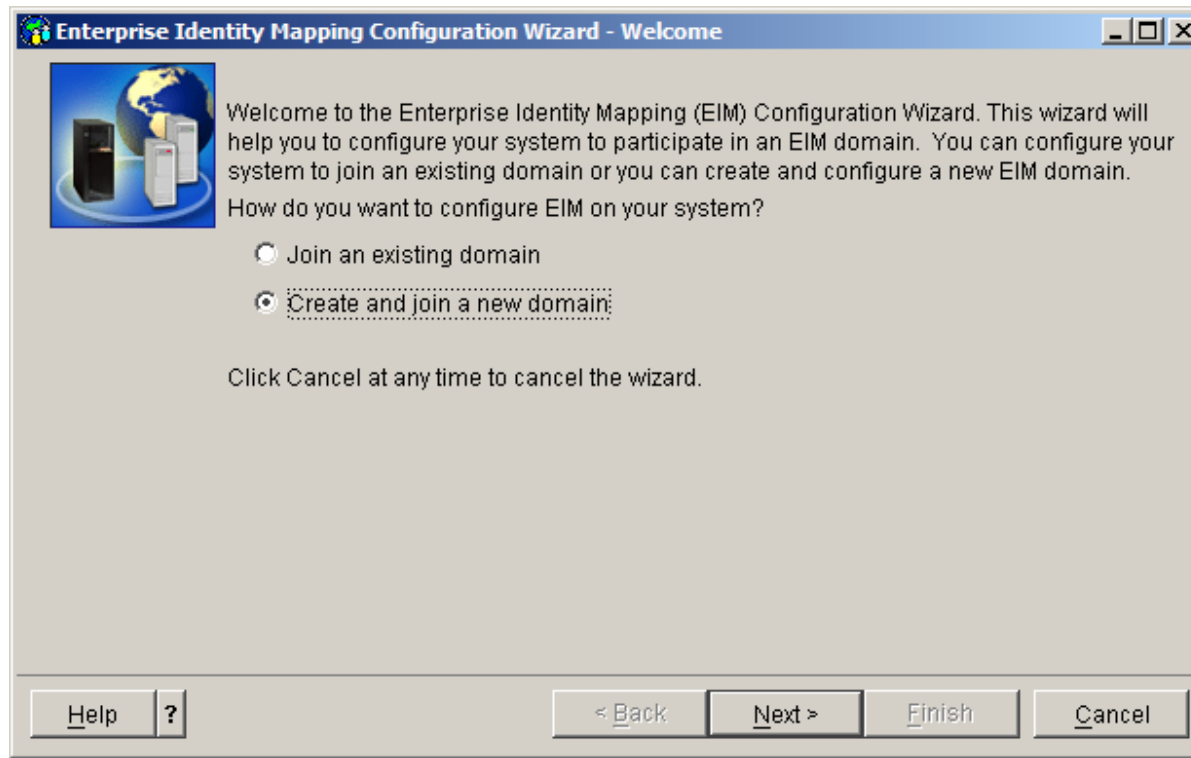
Application Server Authentication EIM Domain Configuration

- An EIM domain is a directory within a Lightweight Directory Access Protocol (LDAP) server
 - A collection of identifiers, associations and registries
 - Used to map identities from one registry to another registry
- System specified by TGTSVR parameter on the CFGACCWEB2 command must be part of an EIM domain
 - Configured using System i Navigator



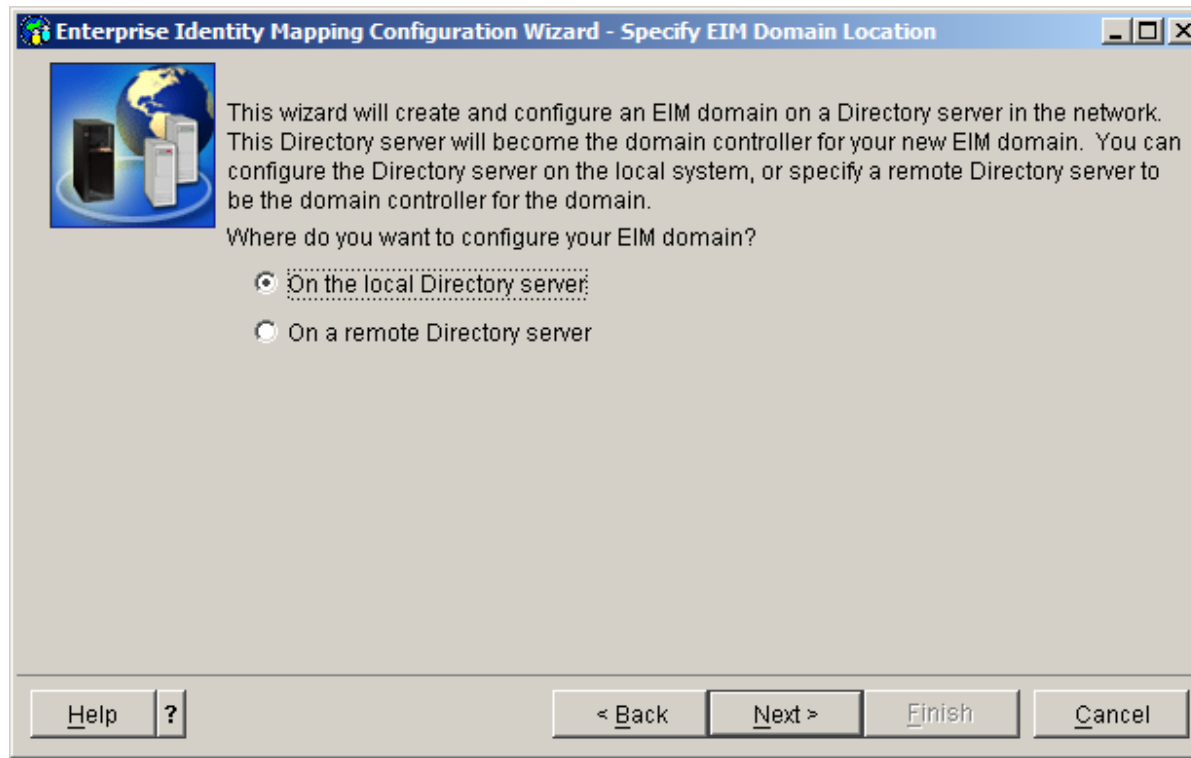
Application Server Authentication EIM Domain Configuration (continued)

- Create and join a new domain, or join an existing domain



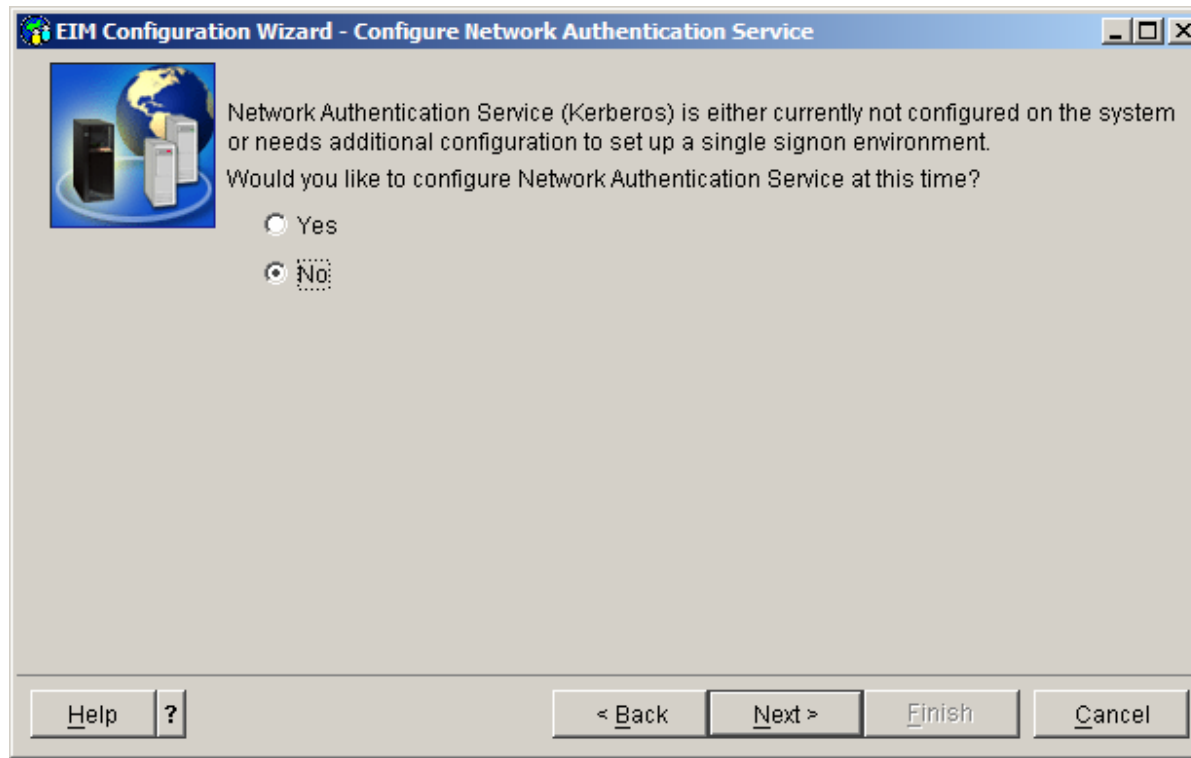
Application Server Authentication EIM Domain Configuration (continued)

- Choose the Directory (LDAP) server to contain the EIM domain.



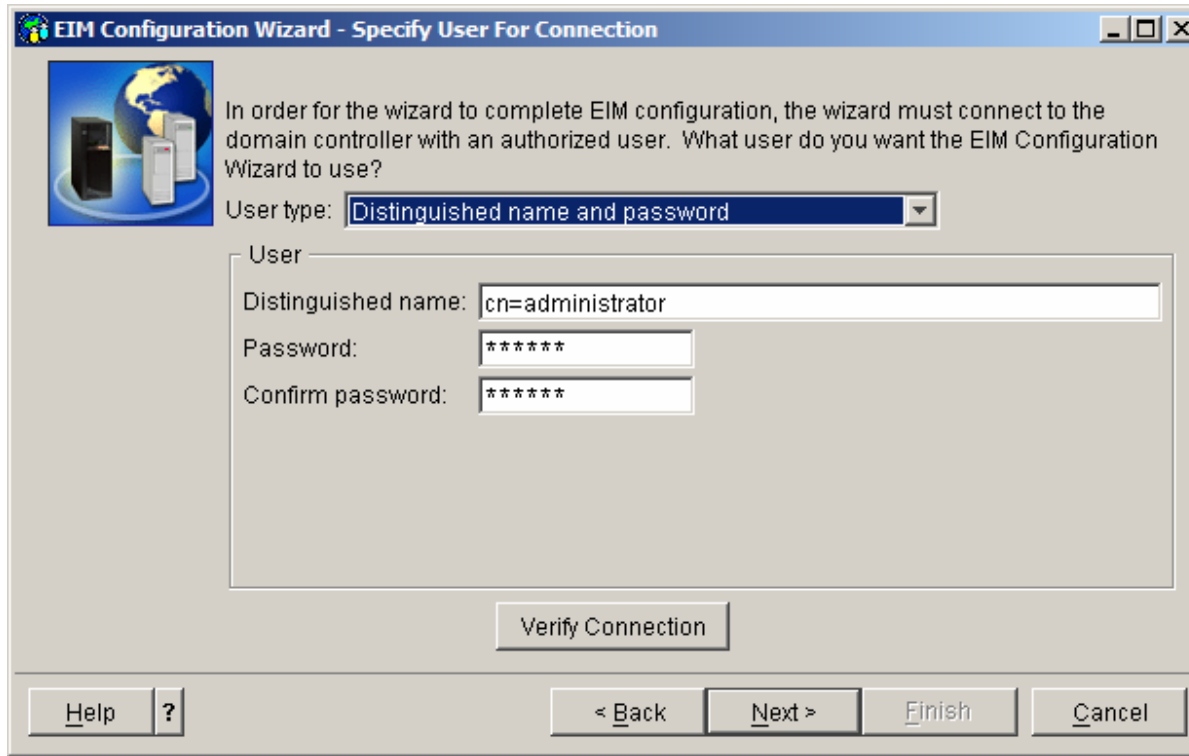
Application Server Authentication EIM Domain Configuration (continued)

- Network Authentication Service (Kerberos) is not needed



Application Server Authentication EIM Domain Configuration (continued)

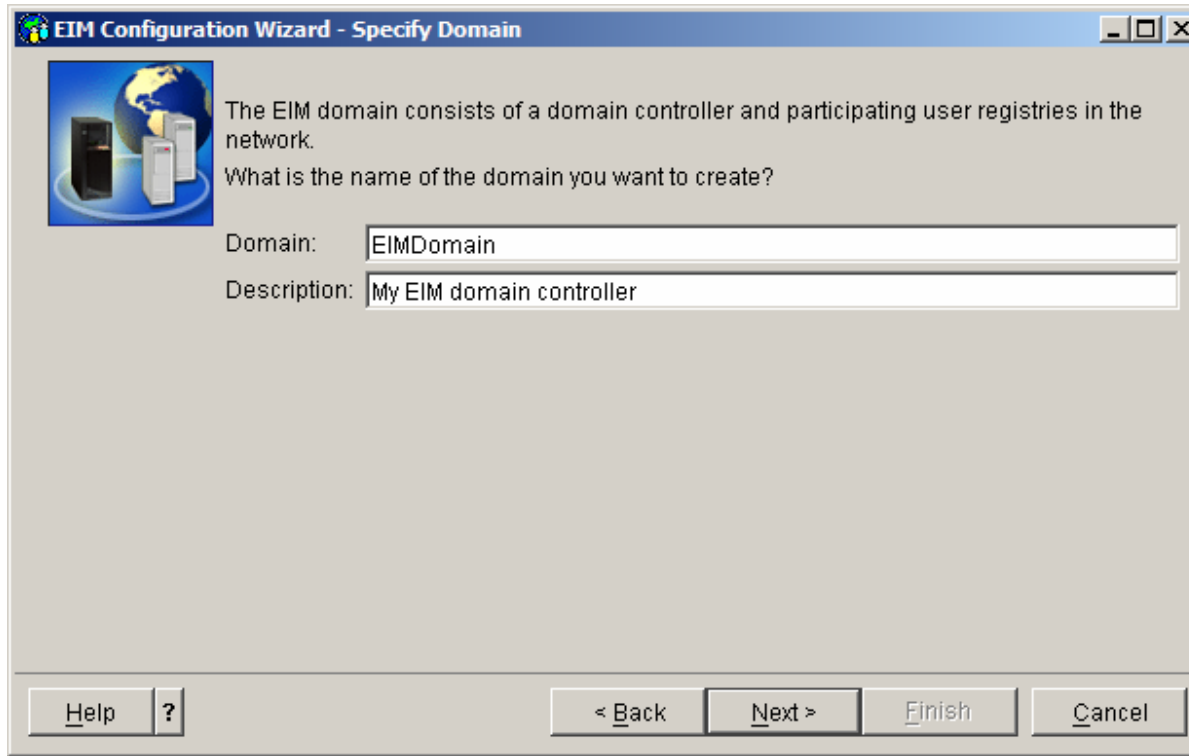
- Specify administrator credentials for the Directory (LDAP) server



The screenshot shows a Windows-style dialog box titled "EIM Configuration Wizard - Specify User For Connection". The dialog has a blue header bar with the title and standard window controls (minimize, maximize, close). On the left side, there is an icon depicting a globe and server racks. The main text area contains the following text: "In order for the wizard to complete EIM configuration, the wizard must connect to the domain controller with an authorized user. What user do you want the EIM Configuration Wizard to use?". Below this text is a dropdown menu labeled "User type:" with the selected option being "Distinguished name and password". Underneath the dropdown is a section titled "User" which contains three input fields: "Distinguished name:" with the text "cn=admin", "Password:" with "*****", and "Confirm password:" with "*****". A "Verify Connection" button is located below the input fields. At the bottom of the dialog, there are four buttons: "Help" (with a question mark icon), "< Back", "Next >", and "Cancel".

Application Server Authentication EIM Domain Configuration (continued)

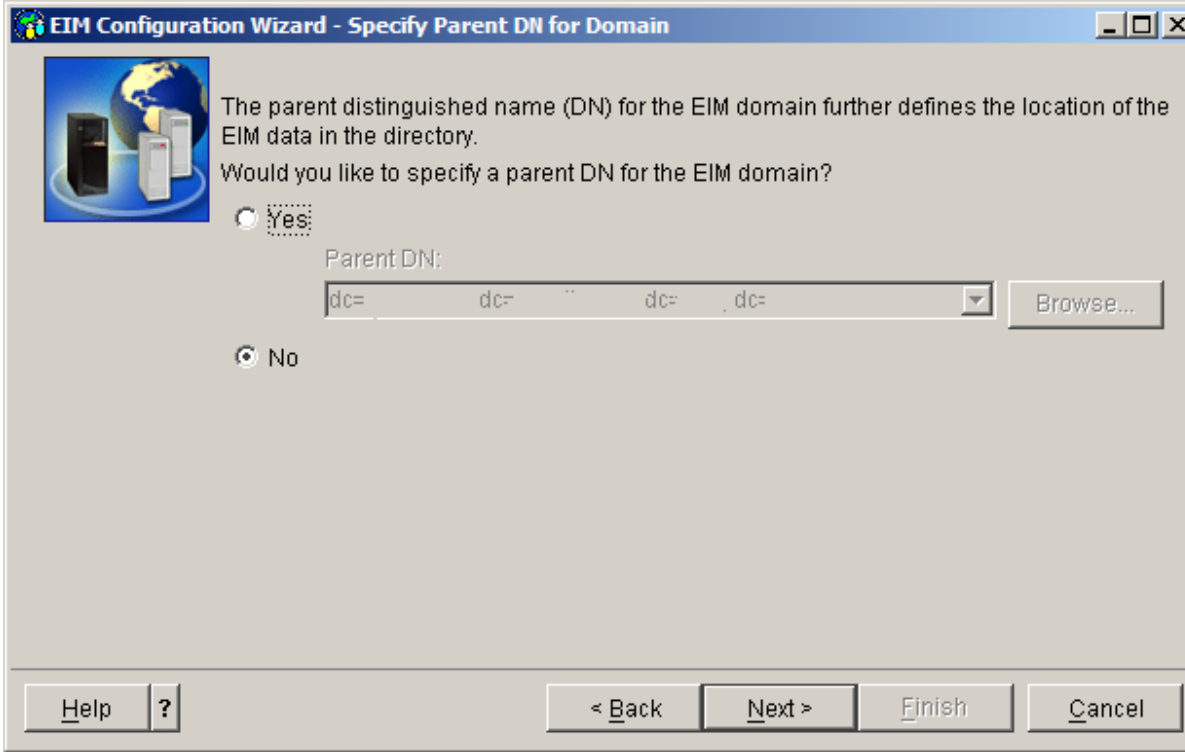
- Specify a name for the EIM domain



The screenshot shows a Windows-style dialog box titled "EIM Configuration Wizard - Specify Domain". The dialog has a blue header bar with the title and standard window controls (minimize, maximize, close). On the left side, there is an icon depicting a globe and server racks. The main text area contains the following text: "The EIM domain consists of a domain controller and participating user registries in the network." followed by the question "What is the name of the domain you want to create?". Below this text are two text input fields. The first field is labeled "Domain:" and contains the text "EIMDomain". The second field is labeled "Description:" and contains the text "My EIM domain controller". At the bottom of the dialog, there are four buttons: "Help" (with a question mark icon), "< Back", "Next >", and "Cancel".

Application Server Authentication EIM Domain Configuration (continued)

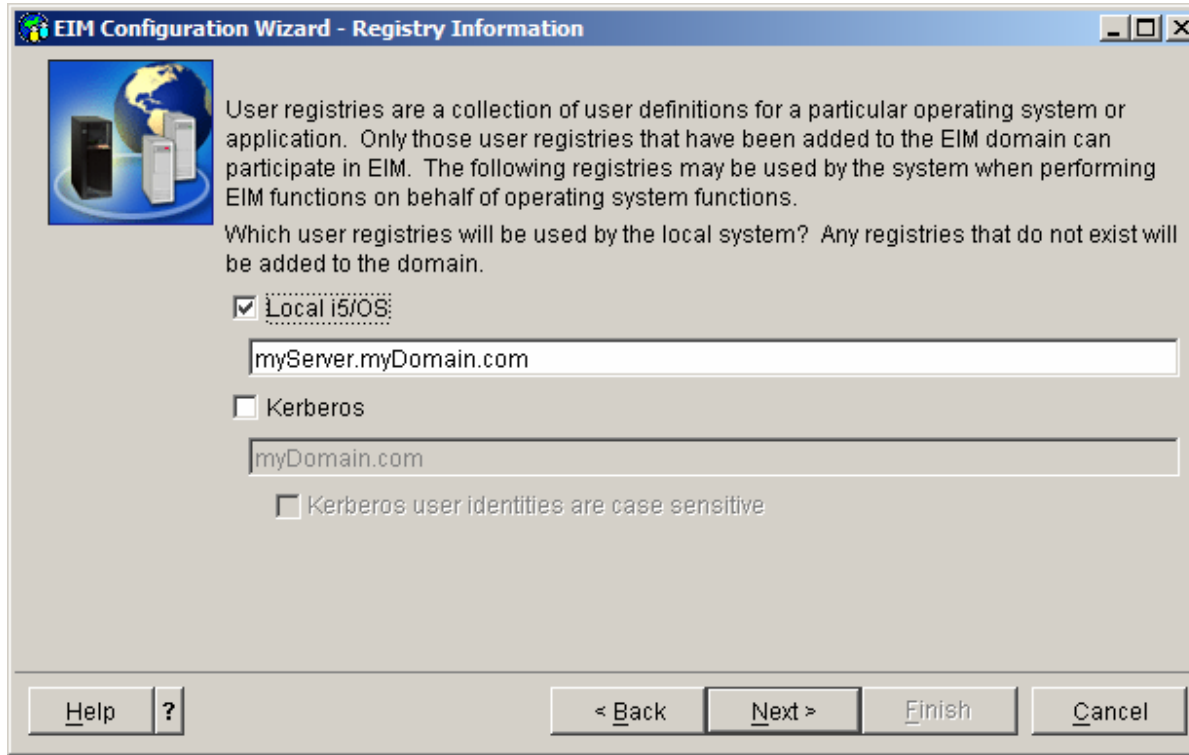
- Specify the location within the directory for the EIM domain




The screenshot shows a Windows-style dialog box titled "EIM Configuration Wizard - Specify Parent DN for Domain". On the left, there is an icon depicting a globe and server racks. The main text reads: "The parent distinguished name (DN) for the EIM domain further defines the location of the EIM data in the directory. Would you like to specify a parent DN for the EIM domain?". There are two radio buttons: "Yes" (which is currently selected) and "No". Below the "Yes" option, there is a text field labeled "Parent DN:" containing the text "dc= . dc= . dc= . dc=" and a "Browse..." button to its right. At the bottom of the dialog, there are four buttons: "Help" (with a question mark icon), "< Back", "Next >", "Finish", and "Cancel".

Application Server Authentication EIM Domain Configuration (continued)

- Create an EIM registry to represent the i5/OS user registry



EIM Configuration Wizard - Registry Information

 User registries are a collection of user definitions for a particular operating system or application. Only those user registries that have been added to the EIM domain can participate in EIM. The following registries may be used by the system when performing EIM functions on behalf of operating system functions.

Which user registries will be used by the local system? Any registries that do not exist will be added to the domain.

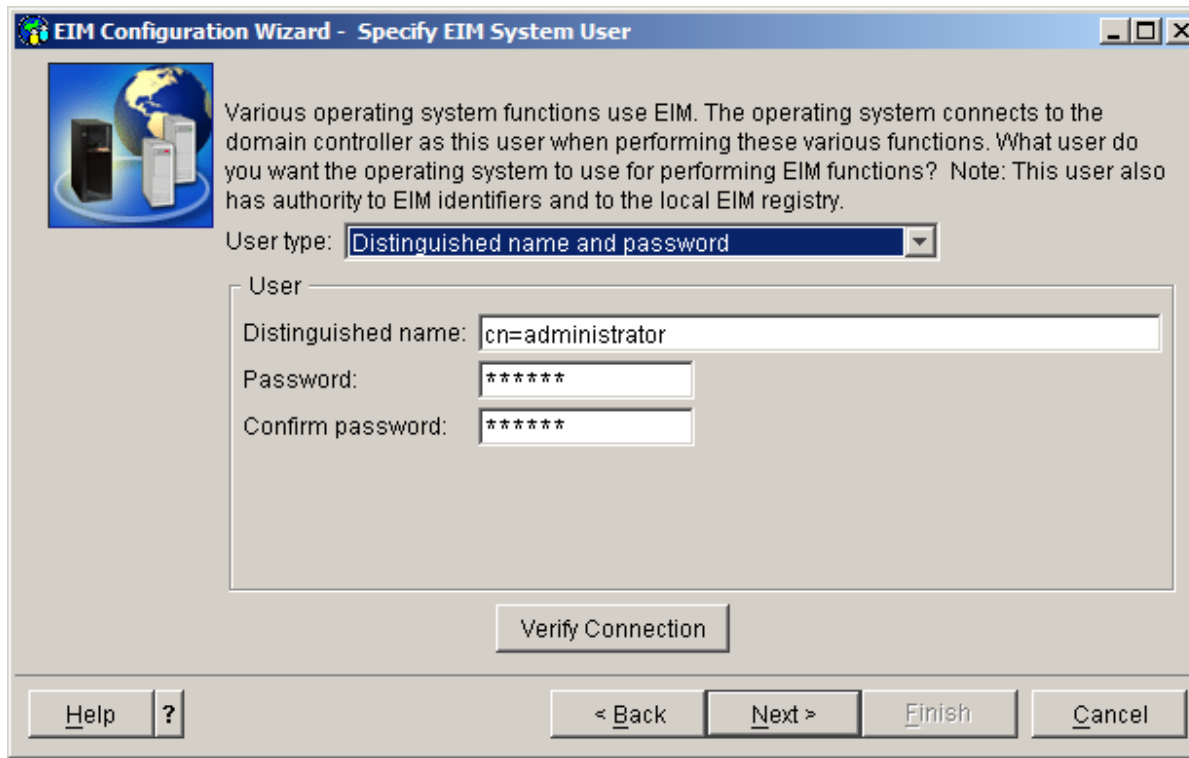
Local i5/OS:

Kerberos:

Kerberos user identities are case sensitive

Application Server Authentication EIM Domain Configuration (continued)

- Specify credentials for i5/OS to use when accessing EIM on the Directory server



The screenshot shows a Windows-style dialog box titled "EIM Configuration Wizard - Specify EIM System User". The dialog contains a globe icon and a text area with the following text: "Various operating system functions use EIM. The operating system connects to the domain controller as this user when performing these various functions. What user do you want the operating system to use for performing EIM functions? Note: This user also has authority to EIM identifiers and to the local EIM registry." Below the text is a dropdown menu for "User type" set to "Distinguished name and password". A "User" section contains three input fields: "Distinguished name" with the value "cn=admin", "Password" with "*****", and "Confirm password" with "*****". A "Verify Connection" button is located below the input fields. At the bottom of the dialog are buttons for "Help", "?", "< Back", "Next >", "Finish", and "Cancel".

EIM Configuration Wizard - Specify EIM System User

Various operating system functions use EIM. The operating system connects to the domain controller as this user when performing these various functions. What user do you want the operating system to use for performing EIM functions? Note: This user also has authority to EIM identifiers and to the local EIM registry.

User type: **Distinguished name and password**

User

Distinguished name:

Password:

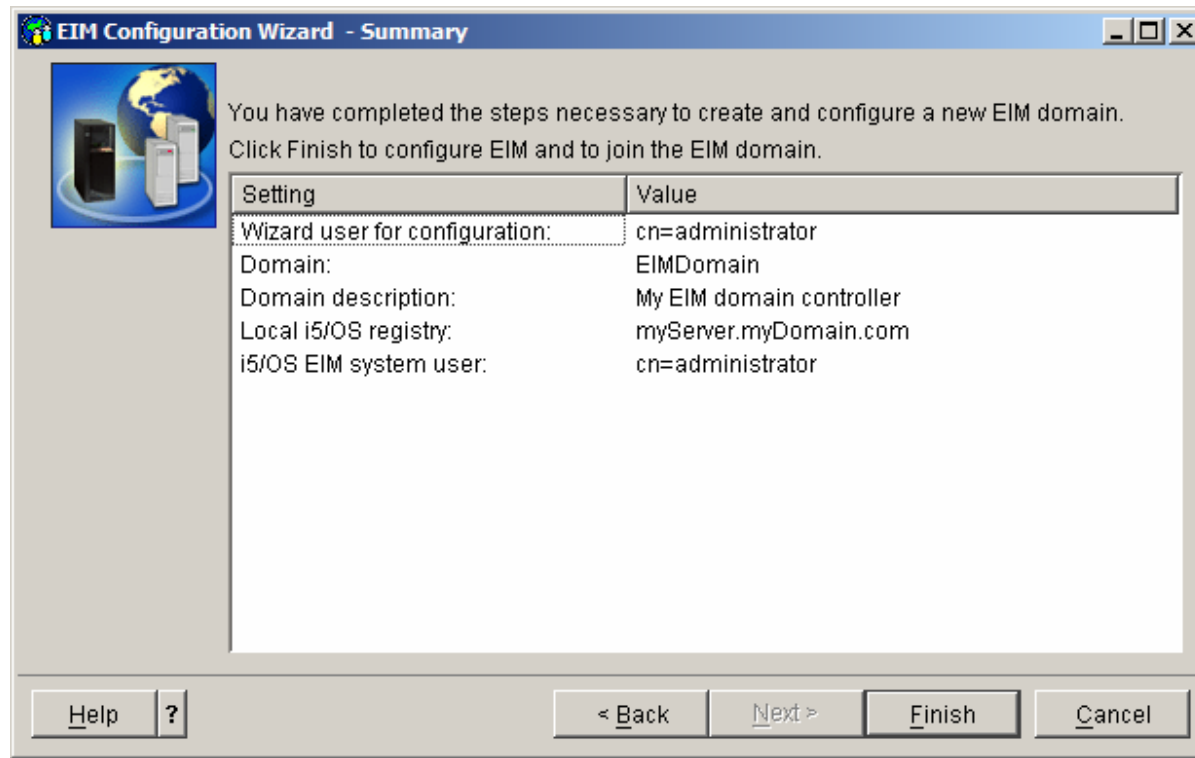
Confirm password:

Verify Connection

Help ? < Back Next > Finish Cancel

Application Server Authentication EIM Domain Configuration (continued)

- Confirm the information and select Finish to create the EIM domain



Application Server Authentication EIM Domain Configuration (continued)

- Create an EIM registry to represent the active WebSphere user registry
 - Specify registry name
 - Specify registry type
 - LDAP – short name
 - For System i Navigator prior to V5R4, specify 1.3.18.0.2.33.14-caselgnore

Add System Registry - EimDomain

Domain: EimDomain

Registry: WebSphereUserRegistry

Type: LDAP - short name

Description: Registry used to contain source associations for Websphere users

User registry URL:

Address aliases

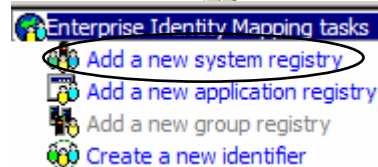
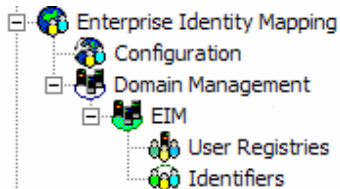
Alias:

Type: DNS host name

Alias Type

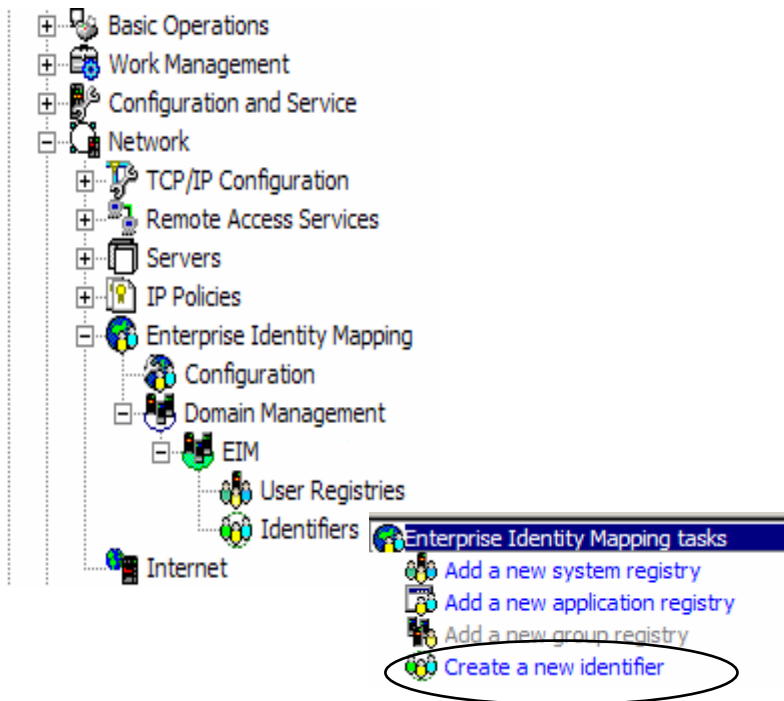
Remove

OK Cancel Help ?



Application Server Authentication EIM Domain Configuration (continued)

- Create an EIM identifier to represent each WebSphere user



The screenshot shows the 'New EIM Identifier - EimDomain' dialog box. The 'Domain' is set to 'EimDomain'. The 'Identifier' field contains 'Steve Jones'. The 'Generate unique identifier' checkbox is unchecked. The 'Description' field contains 'Steve Jones Dept. 819 Phone 555-1212'. The 'Aliases' section has an 'Alias' field and an 'Add' button. Below the 'Alias' field is a list box containing 'Alias' and a 'Remove' button. The dialog box has 'OK', 'Cancel', and 'Help' buttons at the bottom.

Application Server Authentication EIM Domain Configuration (continued)

- Create EIM associations for each identifier

The screenshot illustrates the configuration process for an EIM identifier. On the right, a tree view shows the navigation path: Enterprise Identity Mapping > Configuration > Domain Management > EIM > Identifiers. A table in the center lists the identifier 'Steve Jones' with a description 'Steve Jones Dept. 819'. A context menu is open over this entry, with the 'Properties' option selected. Below, the 'Steve Jones Properties - Lp116ab' dialog box is shown, with the 'Associations' tab active. The dialog displays a table for 'Associations for EIM identifier: Steve Jones' and includes an 'Add...' button circled in red, indicating the next step in the configuration process.

Identifier	Description
Steve Jones	Steve Jones Dept. 819

Registry	Registry Type	User	Association Type
----------	---------------	------	------------------

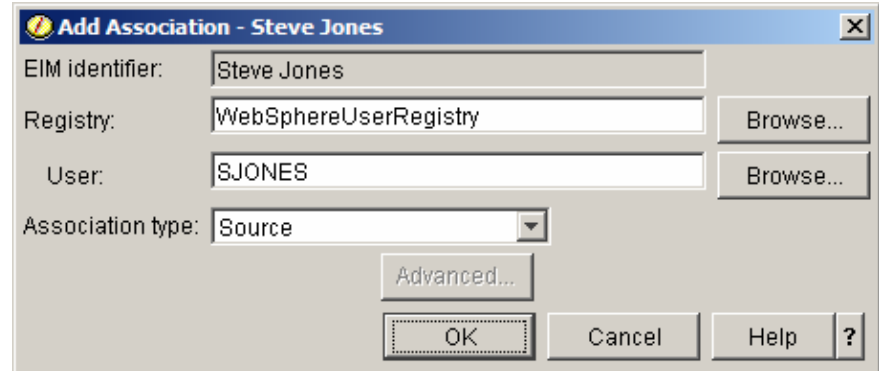
Steve Jones Properties - Lp116ab

Associations for EIM identifier: Steve Jones

Add...
Remove
Details...

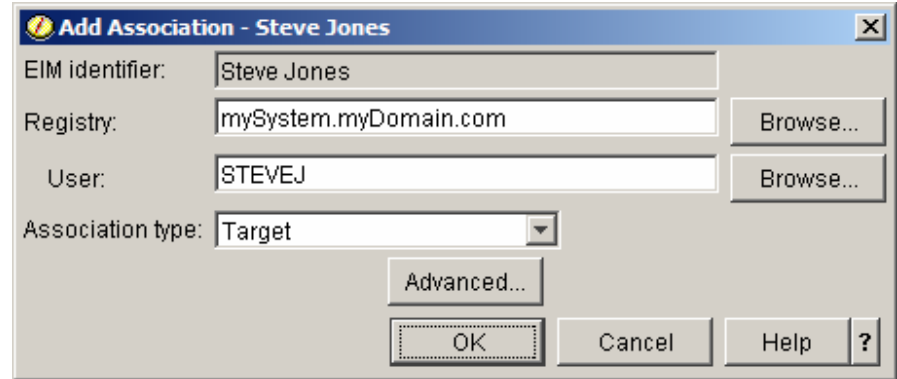
Application Server Authentication EIM Domain Configuration (continued)

- Source association describes relationship to WebSphere user ID
- Browse and select registry representing the WebSphere user registry
- Specify WebSphere user ID
 - LDAP short name
 - May need to be qualified with security domain realm
 - ldap.myDomain.com:389/sjones
- Select 'Source' as association type

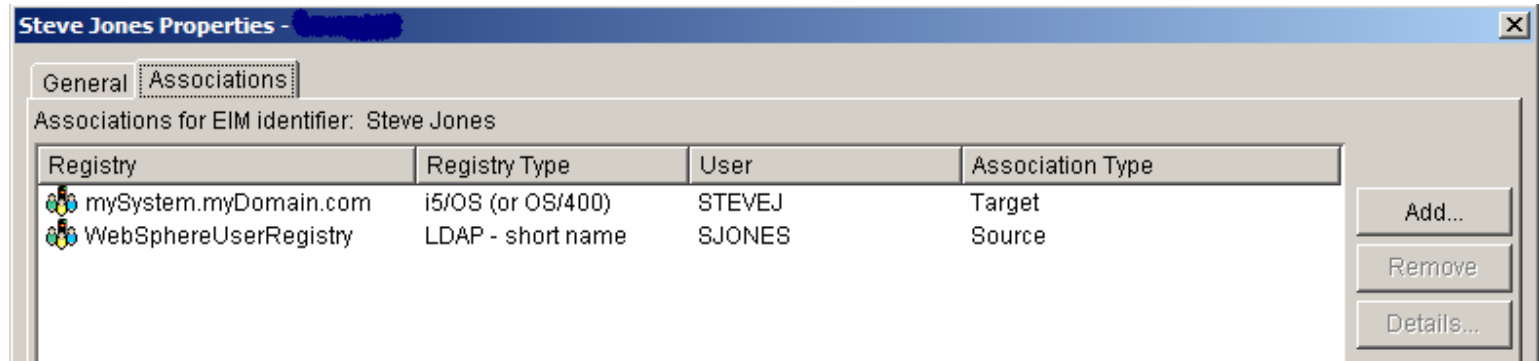


Application Server Authentication EIM Domain Configuration (continued)

- Target association describes relationship to i5/OS user profile
- Browse and select registry representing the i5/OS user registry
- Specify i5/OS user profile
- Select 'Target' as association type



Application Server Authentication EIM Domain Configuration (continued)



- These associations allow the WebSphere user identity SJONES to be mapped to the mySystem.myDomain.com i5/OS user profile STEVEJ
- As users are added to the WebSphere user registry, identifiers with associations must be added to the EIM domain

Additional Information

Application Server Authentication: EIM Identity Token Connector

- The following charts provide additional information on Enterprise Identity Mapping (EIM) Identity Token Connector configuration

Application Server Authentication EIM Identity Token Connector

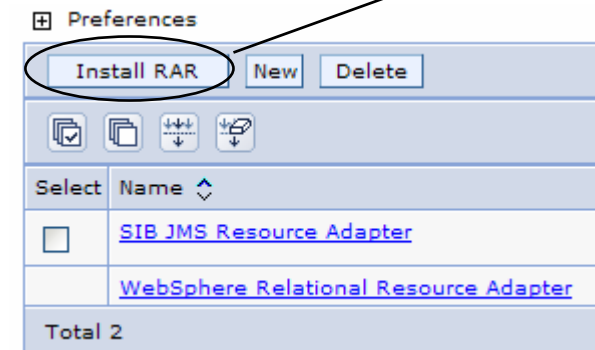
- The EIM Identity Token Connector is a resource adapter that conforms to the J2EE Connector Architecture (JCA) specification
- Connector must be installed in WebSphere
- Create a J2C authentication entry
- Configure Java 2 Connector (J2C) connection factories
- Connection factories are used to request identity tokens
 - Identity tokens are encrypted data strings representing the authenticated WebSphere user identity
- Identity tokens are passed to the i5/OS host servers and input to EIM lookup operations which map the WebSphere user identity to an i5/OS user profile

Application Server Authentication EIM Identity Token Connector (continued)

- Install the connector in WebSphere
 - /QIBM/ProdData/OS400/security/eim/idTokenRA.rar



Resource adapters



Resource adapters

Install RAR File

RAR files can be installed using two methods. You can choose an existing RAR file on a server.

Path

Local path:

Specify path

Server path:

Specify path

Scope

Node

Application Server Authentication EIM Identity Token Connector (continued)

- Create J2C authentication entry
 - LDAP administrator credentials

The screenshot displays the IBM System i Administration Center interface. On the left, a navigation tree shows the path: **Security** > **Global security** > **J2C Authentication data**. The **J2C Authentication data** item is circled in red. An arrow points from this item to the main content area.

The main content area shows the configuration page for **Global security > J2EE Connector Architecture (J2C) authentication data entries**. The page title is "Global security > J2EE Connector Architecture (J2C) authentication data entries" and the description is "Specifies a list of user IDs and passwords for Java 2 connector security to use." Below the title is a "Preferences" section with a "New" button circled in red. An arrow points from this button to the "New" link in the breadcrumb path.

The breadcrumb path is: **Global security > J2EE Connector Architecture (J2C) authentication data entries > New**. Below the breadcrumb is a table with columns "Select" and "Alias". The table contains one entry with a checked "Select" box and an empty "Alias" field. Below the table is a "Configuration" section with a "General Properties" tab. The "General Properties" section contains the following fields:

- * Alias:
- * User ID:
- * Password:
- Description:

At the bottom of the configuration section are buttons for "Apply", "OK", "Reset", and "Cancel".

Application Server Authentication EIM Identity Token Connector (continued)

- Create connection factories

The screenshot displays the IBM WebSphere Administration Console interface for configuring an Identity Token Connector. The left pane shows a list of Resource Adapters (RARs) with 'Identity Token Connector' selected and circled. The main area shows the configuration details for this connector.

General Properties

- * Scope: cells:· _iwa60:nodes ,_iwa60
- * Name: Identity Token Connector
- Description: (Empty text area)

Additional Properties

- [J2C connection factories](#) (circled)
- [Custom properties](#)
- [View Deployment Descriptor](#)

An arrow points from the 'J2C connection factories' link to a detailed view of the configuration, which is partially visible at the bottom of the screenshot.

Application Server Authentication

EIM Identity Token Connector (continued)

- Use the following JNDI names
 - eis/iwa_IdentityToken
 - eis/IdentityToken

- Select the J2C authentication entry created earlier

[Resource adapters](#) > [Identity Token Connector](#) > [J2C connection factories](#) > New

General Properties

* Scope
cells: _____ _iwa60:nodes: _____ _iwa60

* Name
CF1

JNDI name
eis/IdentityToken

Description

* Connection factory interface
javax.resource.cci.ConnectionFactory

Category

Component-managed authentication alias

Component-managed authentication ali
_____ _iwa60/idTokenAlias

Container-managed authentication

Container-managed authentication alias:
use resource reference authentication se
_____ _iwa60/idTokenAlias

Authentication preference (deprecated in
reference authentication settings instead
BASIC_PASSWORD

Mapping-configuration alias (deprecated
reference authentication settings instead
DefaultPrincipalMapping

Additional Properties

- [Connection pool properties](#)
- [Advanced connection factory properties](#)
- [Custom properties](#)

Apply OK Reset Cancel

Application Server Authentication EIM Identity Token Connector (continued)

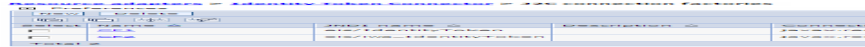
- Set custom properties on factories
 - LdapHostName
 - LdapHostPort
 - EimDomainName
 - SourceRegistryName
- Optional properties
 - ParentDomain
 - KeyTimeoutSeconds
 - KeySize
 - ...

[Resource adapters](#) > [Identity Token Connector](#) > [J2C connection factories](#) > [CF1](#) > Custom properties

Name	Value	Description
LdapHostName	ldap.myDomain.com	Required. The fully qualified TCP/IP host name of the LDAP server hosting the EIM domain controller. For example: myLDAPServer.com
LdapHostPort	389	Optional. The port number of the LDAP server.
EimDomainName	EIMDomain	Required. The simple (undistinguished) name of the EIM domain this resource adapter is using. For example: Auth Tokens Domain
ParentDomain		Optional. The LDAP DN value for the parent domain of the EIM domain this resource adapter is using. For example: dc=myServer, dc=myCompany, dc=com
SourceRegistryName	WebSphereUserRegistry	Required. The name of the EIM registry in which the authenticated username has a source mapping.
KeyTimeoutSeconds	1200	Optional. The number of

Application Server Authentication EIM Identity Token Connector (continued)

- System i Access for Web will use the connection factories in the following order
 - eis/iwa_IdentityToken
 - eis/IdentityToken
- Can create just one of the factories
 - If eis/iwa_IdentityToken connection factory is not created, WebSphere logs will have lots of JNDI lookup errors



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