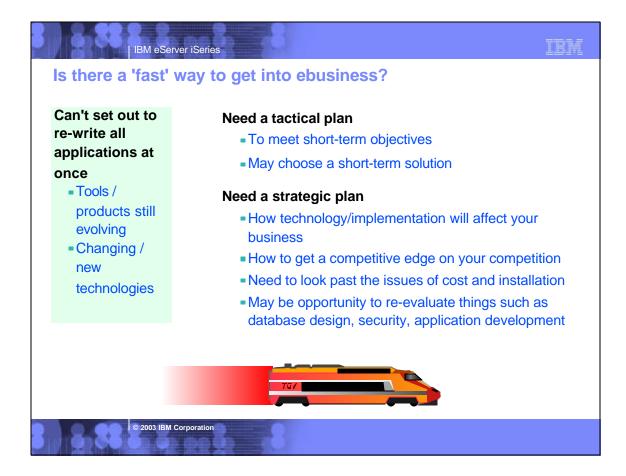


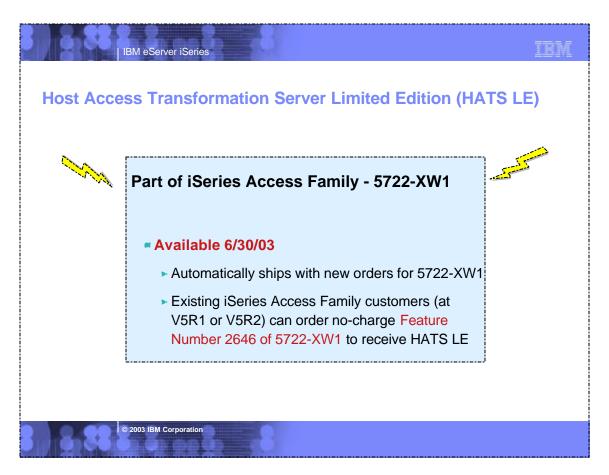
	Server iSeries	Key to the S		IF
ie Applicatio	on Server Is I	key to the So	olutions	
	Tomcat	Express	Base	Network
iSeries Access for Web			THE REAL PROPERTY OF	1 Alexandre
HATS / HATS LE	$\bigcirc$		-	-
Host on Demand	Not Required	Not Required	Not Required	Not Required
Host Publisher	$\bigcirc$			1 Alexandre
IBM Telephone Directory	$\bigcirc$			and the second se
WebSphere Commerce	$\bigcirc$	$\bigcirc$		
WebSphere MQ	Not Required	Not Required	Not Required	Not Required
WebSphere Portal Server	$\bigcirc$	$\bigcirc$		
© 2003 I	BM Corporation	8		

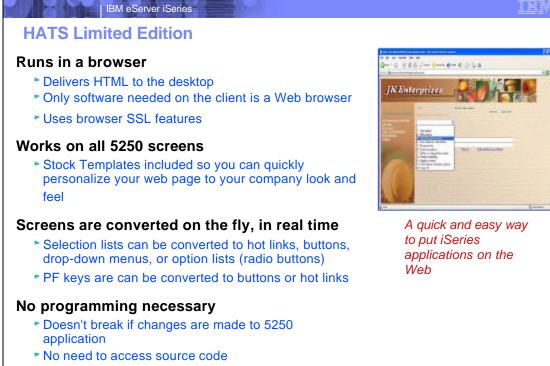




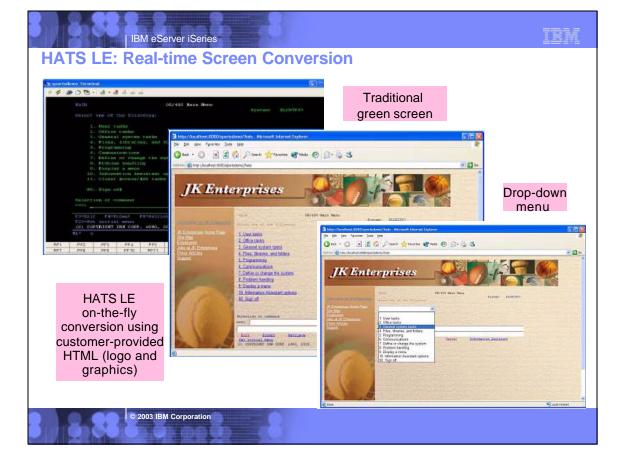
IBM eServer iSeries	IBM
iSeries Access Family - Packaging	g
V5R2 5722-XW1 iSeries Access Family	V5R1 5722-XW1 iSeries Client Access Family
<ul> <li>5722-XE1, V5R2 iSeries Access for Windows</li> </ul>	<ul> <li>5722-XE1, V5R1 AS/400 Client Access Express for Windows</li> </ul>
<ul> <li>5722-XH2, V5R2 iSeries Access for Web</li> </ul>	• 5722-XH1, V5R1 iSeries Access for Web
• 5724-B81, V4.0 5724-B81, V4.01 WebSphere Host Publisher	<ul> <li>5648-E25, V3.5</li> <li>5724-B81, V4.01</li> <li>WebSphere Host Publisher</li> </ul>
5724-D34-01     HATS Limited Edition	<ul> <li>5724-D34-01 HATS Limited Edition</li> </ul>
	Customers with Software Subscription can get V5R2 clients by ordering no-charge Feature No. 2645 of Product No. 5722-XW1
After 6/30/2003, current V5R2 customers can get version of Host Publisher that runs on WAS V5 and HATS LE by ordering no-charge Feature No. 2646 of Product No. 5722-XW1	After 6/30/2003, current V5R1 customers can get version of Host Publisher that runs on WAS V5 and HATS LE by ordering no-charge Feature No. 2646 of Product No. 5722-XW1
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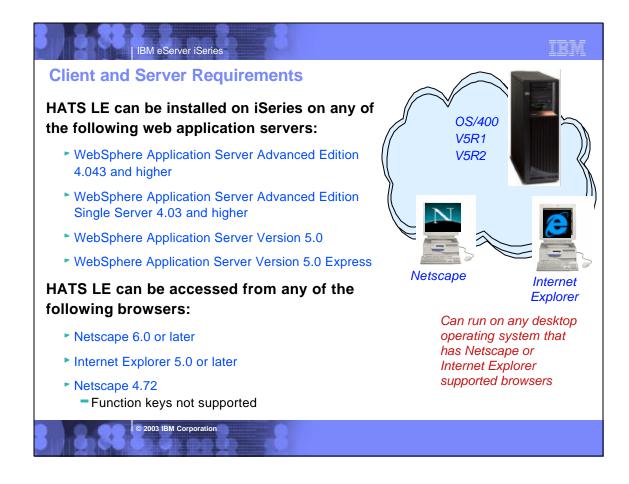






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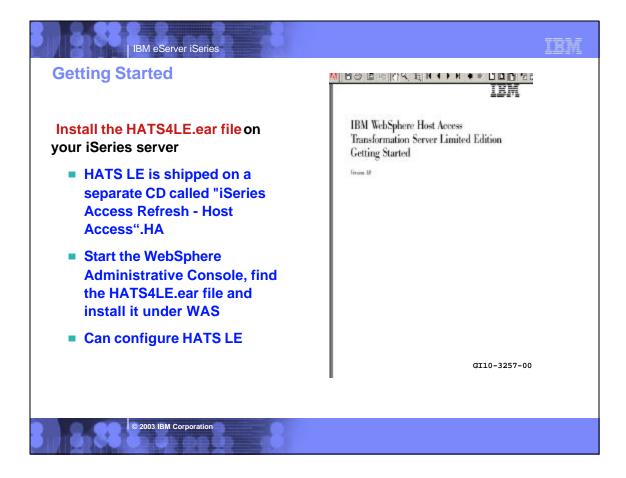




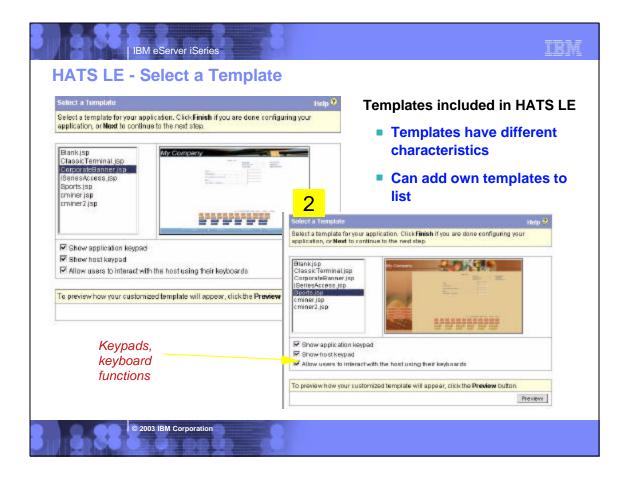
IBM eServer iSeries	IBM
HATS LE - server/client re	quirements
Server Requirements HATS LE is designed to run on any platform supported by HATS V4, however, testing will be limited to iSeries only. The following application servers are supported:	Internationalization • GB18030 phase 1 certification. • Support for all languages and code pages at runtime. • BiDi support • DBCS characters will be supported in the customization wizard as well as connecting to DBCS codepage host applications.
WebSphere Application Server Advanced Edition 4.043 and higher WebSphere Application Server Advanced Edition Single Server 4.03 and higher WebSphere Application Server Version 5.0 WebSphere Application Server Version 5.0 Express	The web- accessible Administrative Console, and Configuration Wizard will be translated into the following Group 1 languages:         • English       • Portuguese/Brazilian         • French       • Japanese         • German       • Traditional Chinese         • Spanish       • Korean         • Italian       • Simplified Chinese
Client Browser Requirements Clients connecting to HATS LE will have the same browser requirements as those users connecting to a standard HATS application:	Portlet Support HATS LE does not run in the WebSphere Portal Server. You need to upgrade to HATS to take advantage of portals.
Netscape 6.0 + and IE 5.0 + Netscape 4.72 (no Function Key keyboard support)	Online Help and Documentation The following online information will be provided: • Readme/installation. PDF and HTML.Translated • Online help for wizard/dialog panels. HTML.Translated.
HATS LE administrators will have the same browser requirements as client browsers connecting to the application.	Online help will be available on all pages of the Configuration Wizard and, the Administrative Console, and the Application Builder. Context sensitive help will not be supported (as it currently exists in the HATS Studio) because this concept is not consistent with normal web-based applications. A link on each wizard panel will open online help for that panel in a new window. A readme file, specific to HATS LE will be available to the administrator in the Administrative Console and to the user

prior to installing the product.

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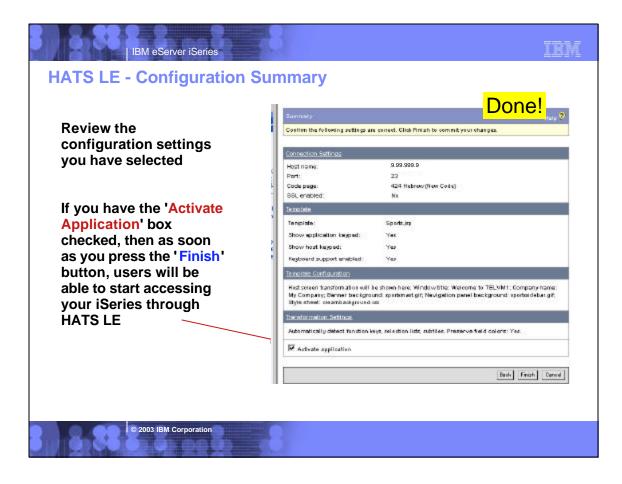


HATS LE - Configuratio Connection Settings	- · • • • •	រ (عَرَيْ حَصَّرَ العَرَّيْ مَعَالَيَ العَمَّانِ (अनुमानवात कि मिन) (अनुमानवात कि मिन) (अनुमानवात कि मिन) (अनु (अनुमानवात कि मिन) (Whatsdev.raleigh.ibm.com/HATSLE/config
Host name	Configure Connec	ti http://serverName/HATSLE/config
Put the iSeries name in here that you want upper to connect to		st connection settings. Click Finish if you have finished configuring your application, o o the next step. For more information, olick the Help icon above.
users to connect to. <u>Doesn't have to be</u> system where WAS or	Host name: Port:	MyiSeries
HATS LE is running	F off.	424 Hebrew (New Code)
Port	Code page:	Enable screen reverse
Code page	Workstation ID:	Enable screen reverse     Server assigned
<ul> <li>Workstation ID</li> <li>Server assigned (default)</li> <li>Set to a value</li> </ul>		C Setto value (wildoards allowed): C Set from HTTP session variable: C Prompt user Allow workstation ID parameter override in URL
Set from an HTTP session variable	Security:	Enable SSL (Secure Sockets Layer) Certificate file: Upload
Prompt user	Ĉ.	Back Next Finish Cancel
Security - SSL     © 2003 IBM Corporation		

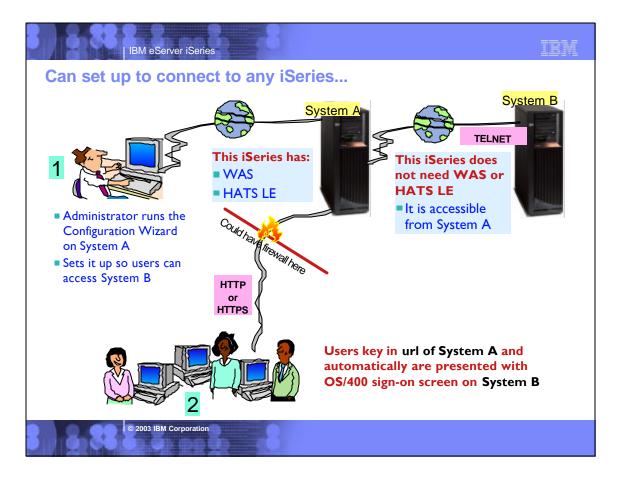


Transformation Settings Select how to render your transformed host sor	Help S
Detect PF keys	Settings
✓ Detect selection lists	Settings
Detect tables	Settings
✓ Detect subfiles	
✓ Preserve field colors	
Use character by character rendering:	Never
	Back Next Finish Cancel
	Select how to render your transformed host so  Detect PF keys  Detect selection lists  Detect tables  Detect subfiles  Preserve field colors

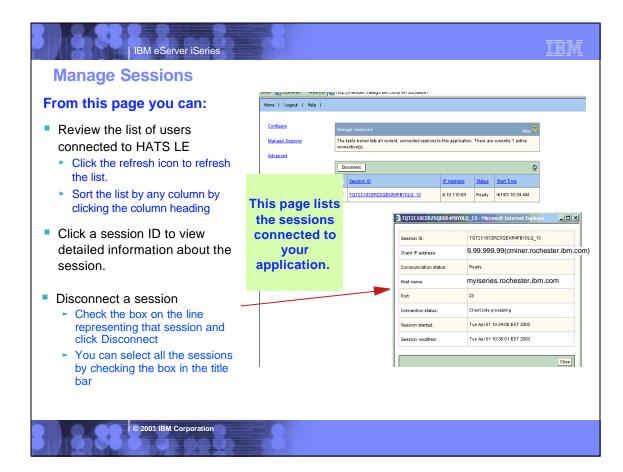
IBM eServer iSeries	-800 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	IBM
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© 2003 IBM Corporation	.8	

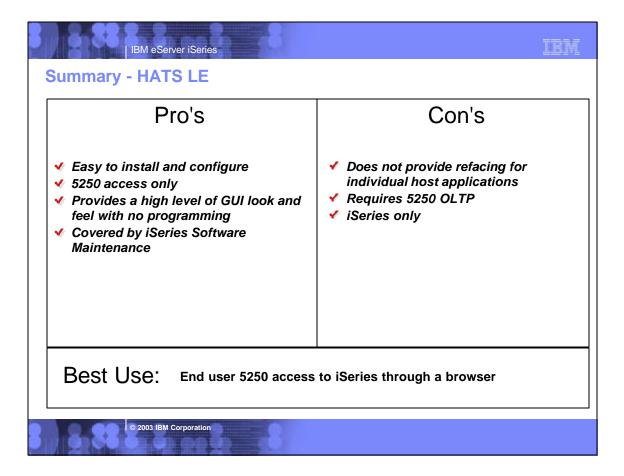




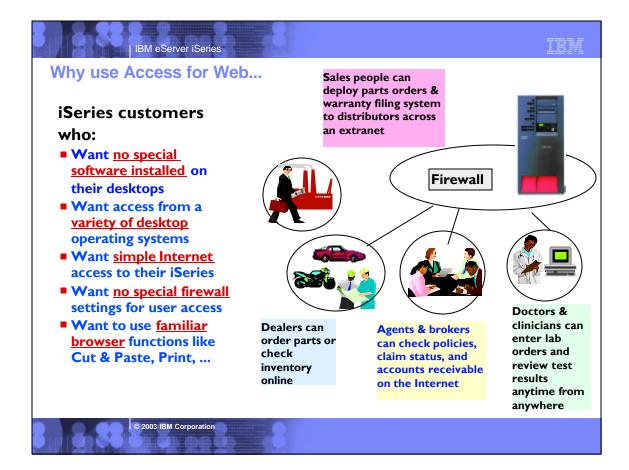


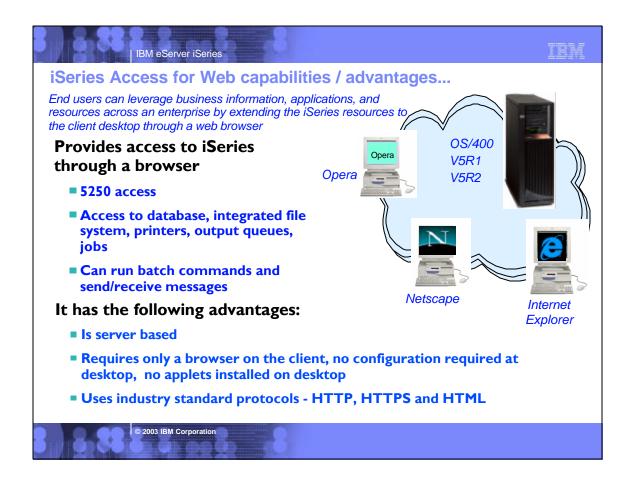
	(/my/series.ibni.com/HATSLE/admin		A web-based tool to:
e   Lagout   Help	I.		Manage active connections
ofiant	Administrative Console		<ul> <li>Tweak configuration</li> </ul>
	Administrative Console		changes
anage Bessiens	This application	a active. <u>Deacteria</u>	<ul> <li>Activate/deactivate the</li> </ul>
hattend			application
	Application stated:	Mat 19, 2002 10:42 58 AM	Launch the
	Number at active sessions: Peak number of assessments were the last hour.	1	Configuration Wizard
	Peak number of sectors since the application may started.		Configuration wizard
			Different than the
	Connection Settings		WAS administrative
	Host mana: 9.999.99.9		console
	Port: 23	12212-0	
	Code page: 420 waters and page.		
	SSL anabled: No	7724	Requires SECADM authority
	••• kartisesee Toueromaka Salar (NATS) La de Caltor		-











# IBM eServer iSeries



# Notes: What is iSeries Access for Web?

## iSeries Access for Web

iSeries Access for Web is a <u>lightweight</u>, <u>browser-based</u> access to your iSeries servers

### Pure Java servlet-based access

 iSeries Access for Web is a set of servlets that run on the iSeries servers as extensions to the HTTP server. It provides access to functions such as database, file, print, and messages on the iSeries server.

### Industry-standard protocol

 iSeries Access for Web uses the industry standard <u>HTTP and</u> <u>HTTPS protocols</u> and does not use any proprietary TCP/IP ports and protocols. Firewall issues are much more manageable as a result.

### Lightweight Access

 The intent of iSeries Access for Web is lightweight and casual access of iSeries servers from a web browser. Most of the iSeries Access for Web functions have minimal broswer requirements and would work with almost any browser on any platform.

### Server-based

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

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### Object-level security

 Access to the iSeries data is based on iSeries <u>object level</u> security. Users and groups have only access to the data they are authorized to.

### Fully customizable

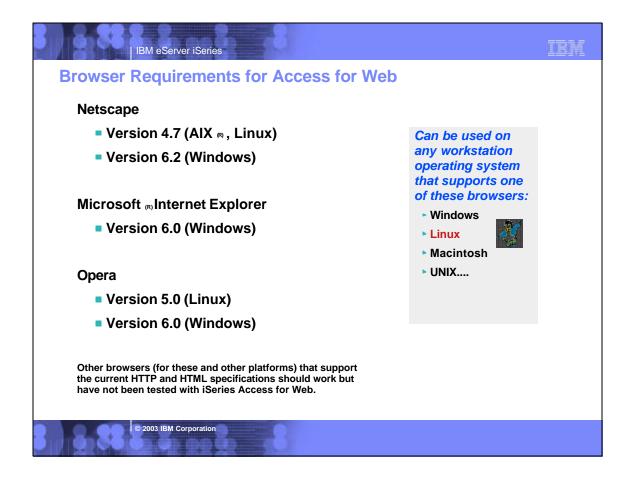
 Access to iSeries Access for Web functionality can be restricted for users and groups of users. iSeries Access for Web is <u>fully</u> <u>customizable</u>.

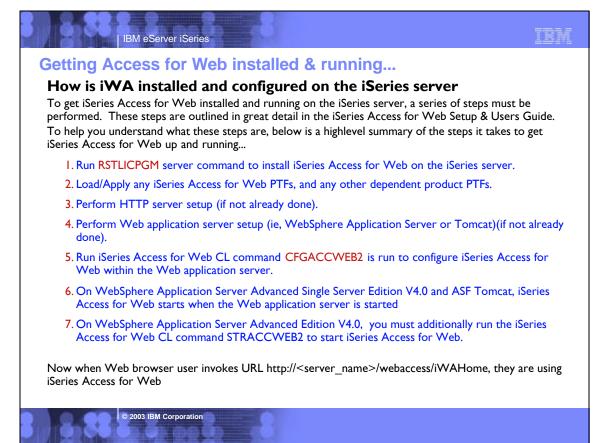
## HTML and other internet mime types

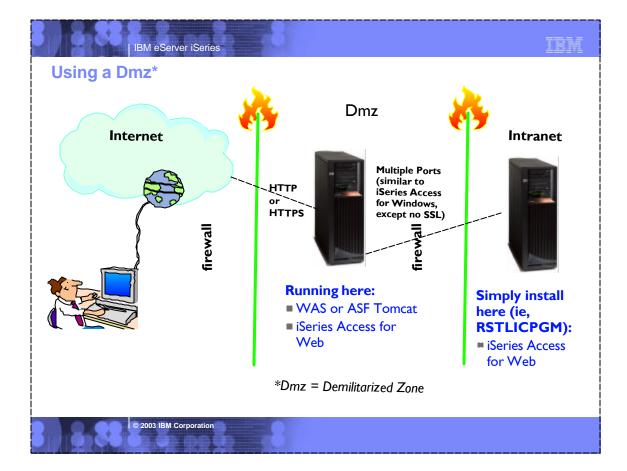
Responses from the iSeries Access for Web servlets are formatted and tagged with the appropriate mime types. Some of the mime types used are (others may be used and added in the future):

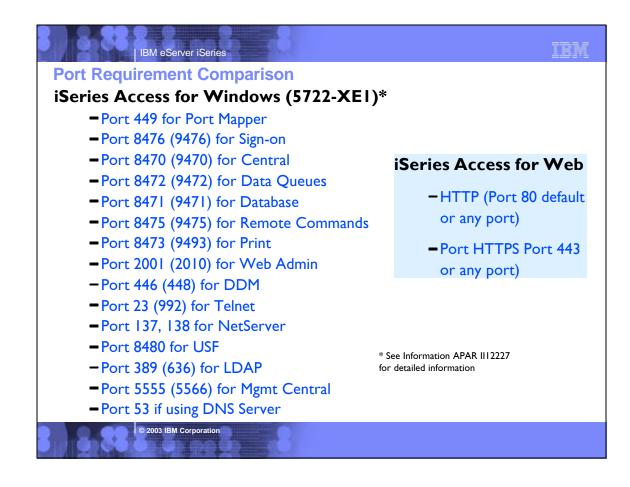
- HTML (text/html)
- binary (application/octet-stream)
- text (text/plain)
- MS Excel (application/vnd.ms-excel)
- Lotus I-2-3 (application/vnd.lotus-I-2-3)
- · GIF images (image/gif)
- TIFF images (image/tiff)
- HP PCL (application/vnd.hp-PCL)
- AFP (application/vnd.ibm.modcap)

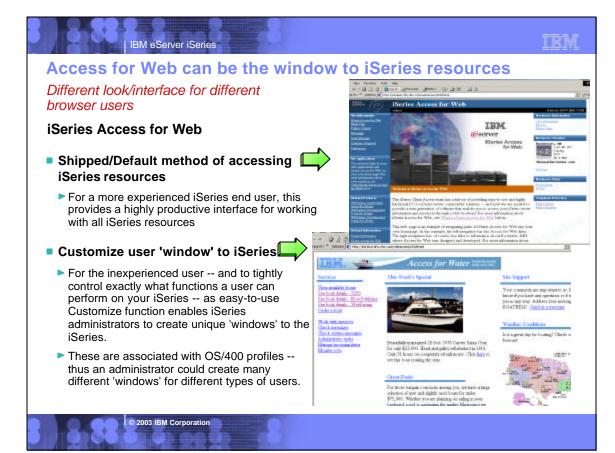
In most cases, the request implies the resulting data type. iSeries Access for Web servlets retrieve the data, format the data in appropriate formats, tags it with the appropriate mime type, and sends the response back to the client











# **Multi-Function Interface**

IBM eServer iSeries

# **My Personal Folder**

# Print

- Printer output
- Printers
- Internet Printers
- Printer shares
- Output Queues

# Database

- Tables
- My Requests
- Run SQL
- Copy Data to Table
- Import Requests

# 5250

Start 5250 Session

# Commands

Run commands (Batch)

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# IEM . My Folder My Home Page Print Messages Jobs 5250 Database Files Command Customize Other

# Files

- Browse Files (in IFS)
- File Shares (in NetServer)

# Messages

- Display Messages
- Send Messages
- Operator Messages
- Message Queue

# Jobs

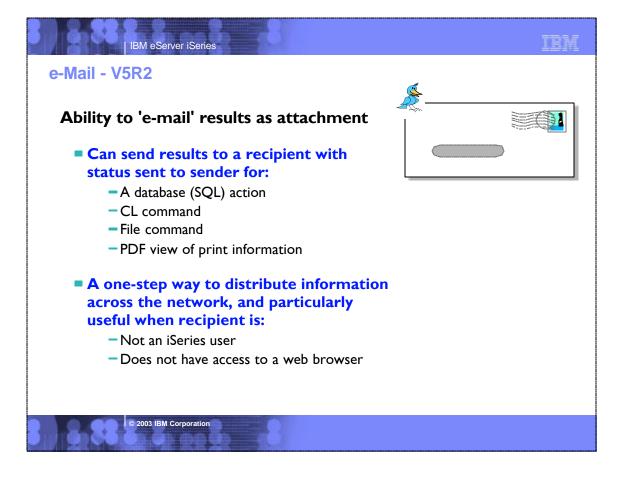
- User Jobs
- Server Jobs

# Customize

- Administrator controls access to functionsu by user or group of users:
  - -Customize front page
  - Limit tasks that can be performed



# IBM



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Bet up my s	ession for e-mail car iSeries Access for W			RCHASIDD.RCH
🗎 <u>My Folder</u>	Customize - Mail 🤇	]		
<u>My Home Page</u> Print	Profile: CMINER			
Messages	Policy	Derived From	Action	Setting
Jobs 5250	Send mail	Shipped default	Use current setting	Allow 💌
Database	SMTP mail server 1	Profile setting	Use current setting	us.ibm.com
Files	E-mail address 2	Profile setting	Use current setting	cminer@us.ibm.com
Command	E-mail address is user preference	Shipped default	Use current setting	Allow -
Customize <u>Preferences</u> <u>User profiles</u> <u>Group profiles</u> <u>Selected profile</u>			server setting: set up same add	lress for all users
Other Related Links:			for Web will use nust be set for e	information in SDD each user
	2003 IBM Corporation			

-		

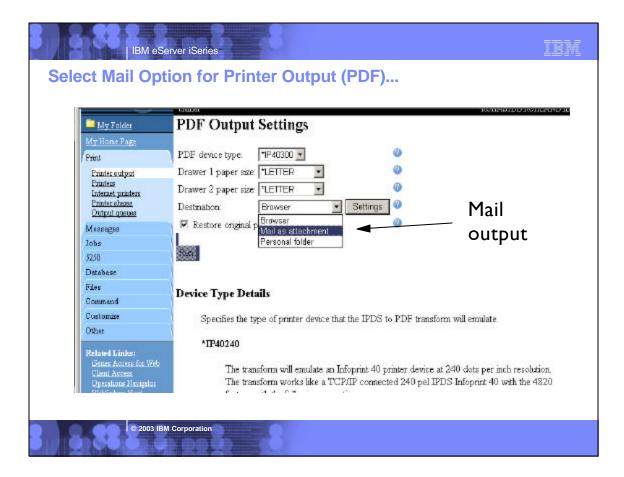
# **Printer Output screen**

IBM eServer iSeries

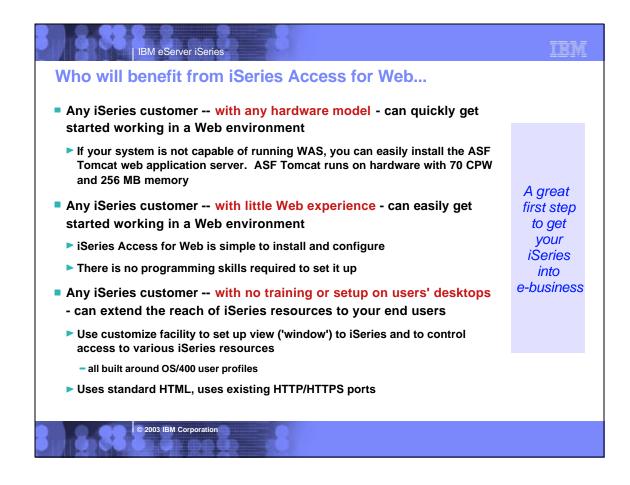
1

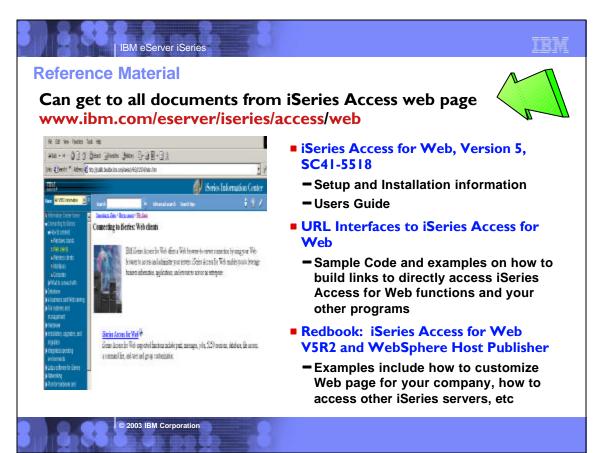
📑 My Folder	Printer	Output fo	r wuser 🔤							
<u>My Home Page</u> Print	(d (d ( [1]	2 D D D Q	1				_		2	_
<u>Printer output</u> <u>Printers</u>	File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	<mark>3</mark> Action		Preview	
Internet printers Printer shares	QPDSPSTS		1/2/03 7:22 AM	1	1	Ready	Hold Print Next Delete	PDF	GIF TIFF PCL AFP Viewer	N
Output queues	QPRTSPLQ		1/2/03 8:09 AM	1	1	Ready	Hold Print Next Delete	PDF	GIF TIFF PCL AFP Viewer	V
Jobs	QPDSPSTS		1/13/03 8:54 AM	1	1	Ready	Hold Print Next Delete	PDF	GIF TIFF PCL AFP Viewer	V
5250	QSYSPRT	WRKSYSVAL	1/2/03 8:04 AM	3	1	Ready	<u>Hold Print Next Delete</u>	PDF	GIF TIFF PCL AFP Viewer	V
Database	QPDSPSTS		1/14/03 2:30 PM	1	1	Ready	Hold Print Next Delete	PDF	GIF TIFF PCL AFP Viewer	V
Files	QSYSPRT	WRKSYSVAL	1/2/03 8:04 AM	3	1	Ready	Hold Print Next Delete	PDF	GIF TIFF PCL AFP Viewer	V
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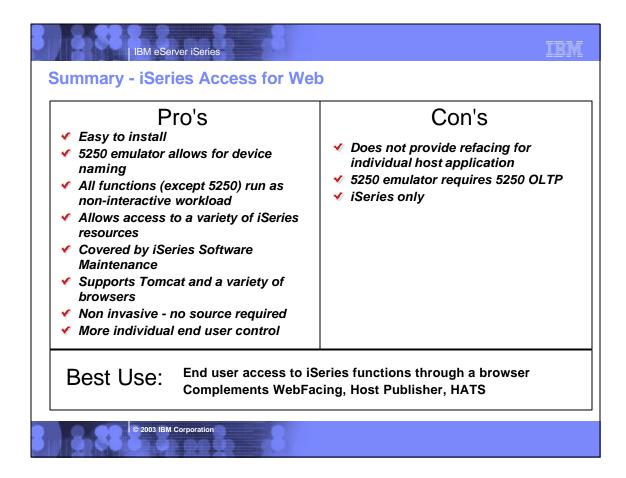
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To	Joe Customer				
10	1234 Beach Street				
	Hometown, CA 12345				
Date	Thursday, June 13, 2002				
Invoice No.	9876543				
Payment Due	Monday, July 15, 2002				
-		Part No.	Quantity	Price	Amount
Description					
Description Hunter 33.5		C04356	1	\$57,900.00	\$57,900.00
		CO4356 199234	1	\$57,900.00 \$1,800.00	\$57,900.00 \$1,800.00
Hunter 33.5					
Hunter 33.5 Boat trailer		199234	1	\$1,800.00 FREE	\$1,800.00 \$0.00
Hunter 33.5 Boat trailer		199234	1	\$1,800.00	\$1,800.00



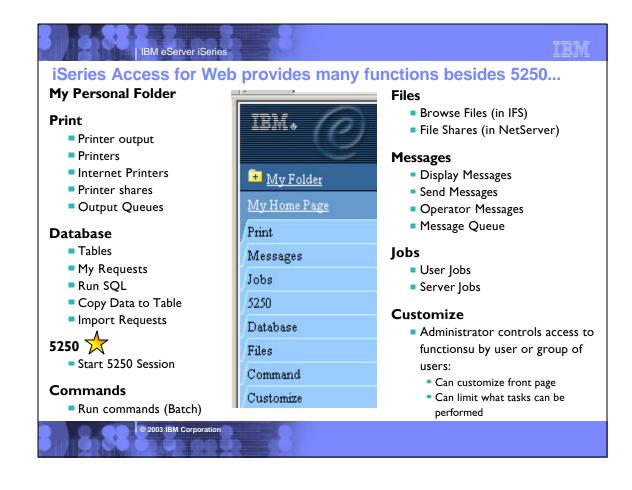
IBM. (C)	iSeries Access for Web	
<u> </u>		HASIDD.RCHLAN
📑 My Folder	Mail as Attachment Settings	
My Home Fage		
Print	From: cminer@us.ibm.com	
Printer output	To: smshao@us.ibm.com	
<u>Printers</u> Internet printers	cc.	
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Messages	Subject Today's Job Log	
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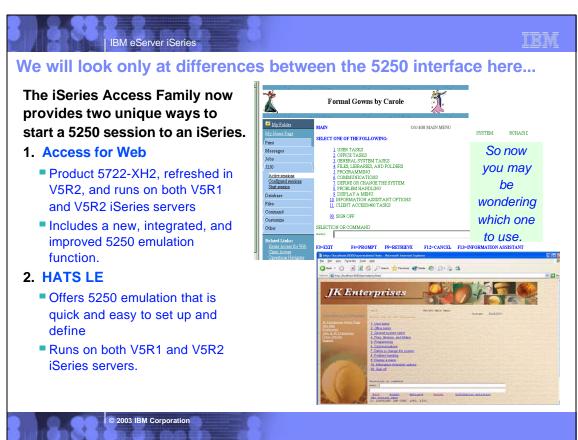










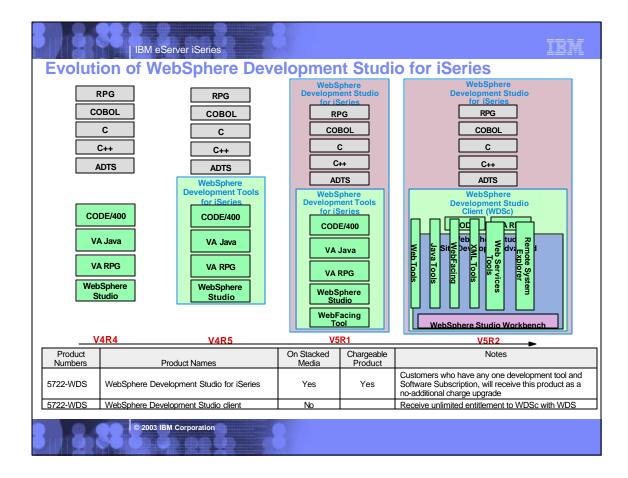


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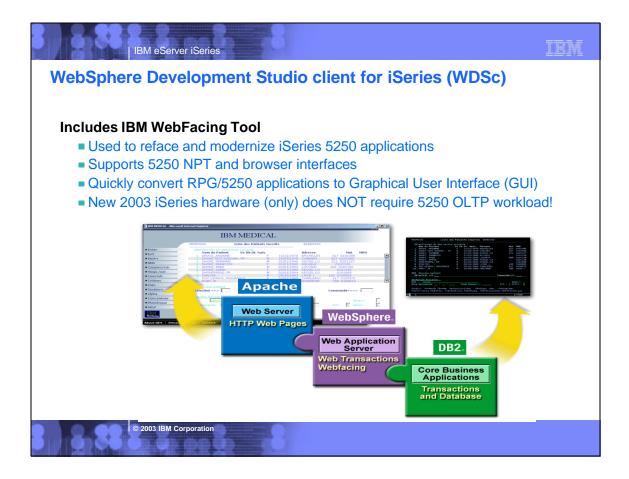


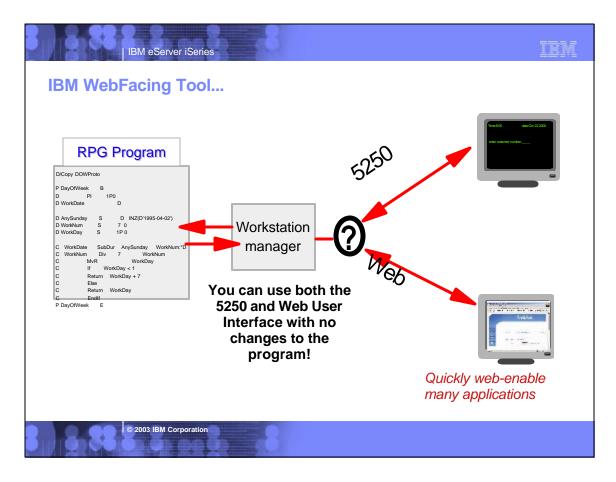
Differences - iSeries Access for Web vs HATS LE				
Access for Web (5250 emulation)	HATS LE (5250 emulation)			
If using many other Access for Web functions	Easier to set up if only want 5250 session			
<ul> <li>Can select 5250 or other functions from the Navigation Bar. If users need more than 5250, less set-up to use Access for Web for all needs than to also install/set up HATS LE</li> </ul>	<ul> <li>If the only function you want to make available to users is 5250 emulation, then it would be easier to use HATS LE as that is all the only function it provides. Its Configuration Wizard is easy and guick to set up.</li> </ul>			
Provides 'Window' to iSeries	One customization applies to all users			
<ul> <li>Has a 'front page' concept (think of portlet) that can be customized by administrator to contain only predefined links to not only Access for Web functions, but other applications, locations, etc</li> </ul>	<ul> <li>You only need to go through the customization once and it applies to all users connecting to that instance of HATS LE.</li> <li>In Access for Web, most 5250 customization must be done by end user. Centralized customization will be available in next release of Access for Web (see beta on www.ibm.com/eserver/iseries/access/web)</li> </ul>			
Can connect to multiple iSeries	Function Keys work with Netscape too			
<ul> <li>End user can easily configure multiple 5250 sessions to multiple iSeries servers from single URL.</li> <li>For HATS LE, the Administrator must go through special setup to enable users to access multiple iSeries servers through multiple URLs.</li> </ul>	<ul> <li>HATS LE enables Netscape users, as well as Internet Explorer users, to work with keyboard Function keys</li> <li>Access for Web only supports use of Enter Key when using Netscape</li> </ul>			
Includes Macro support	Rules-based transformation capabilities provide a			
<ul> <li>The macro support can be used to eliminate the entering of repetitive commands or even bypass the second sign-on screen.</li> <li>HATS LE has no macro support</li> </ul>	<ul> <li>more enhanced GUI-look</li> <li>All system screens and application screens can have drop down lists. HATS LE can detect selection lists and tables and provide an enhanced GUI look not possible with Access for Web 5250 emulation.</li> </ul>			
iSeries-specific usability functions	Templates included			
<ul> <li>Can enable 'More' on a button, cursor positioning help (ie, will perform function that pressing F1, F9, etc would do)</li> </ul>	Sample templates included, and are easy to modify.			
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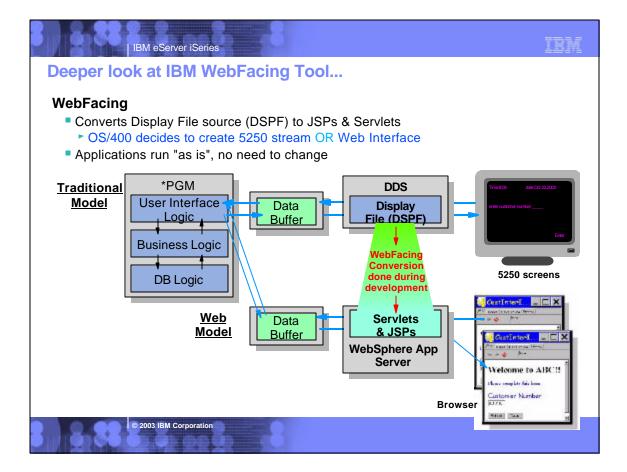






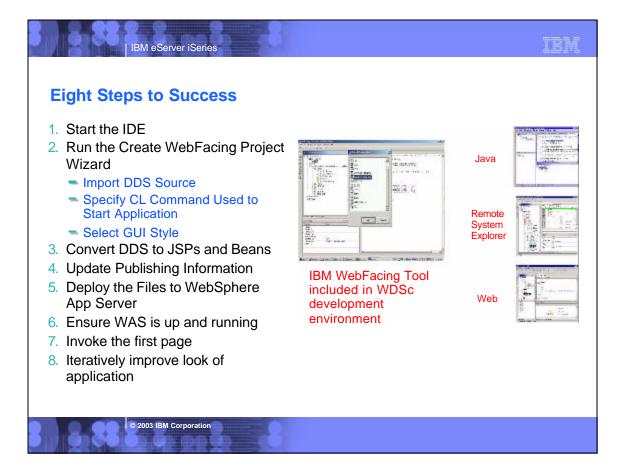


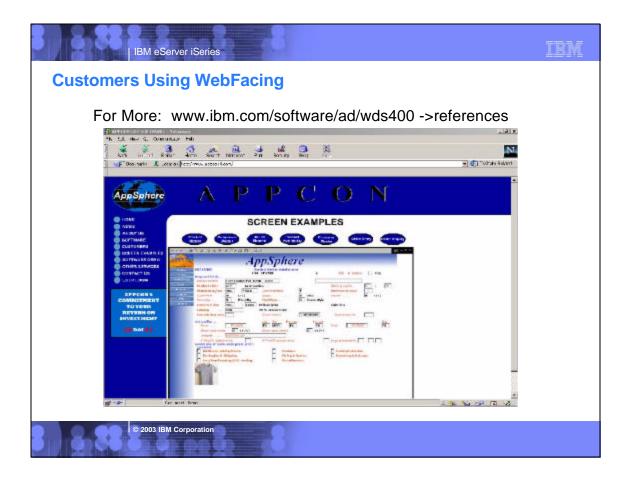


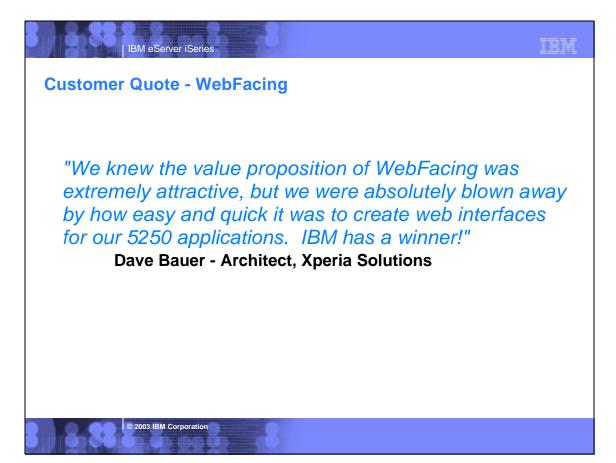


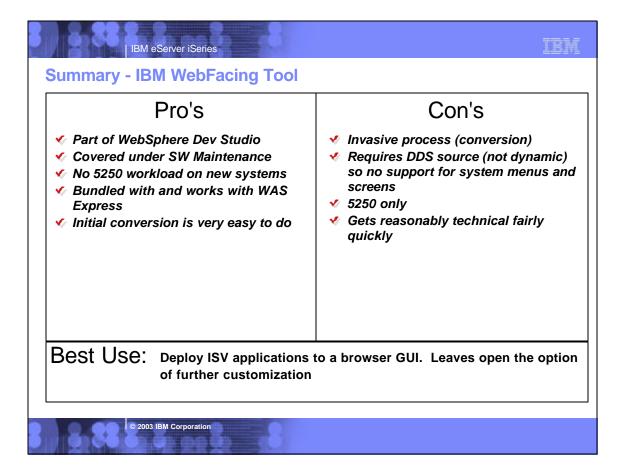
IBM eServer iSeries	IBM
Before WebFacing	
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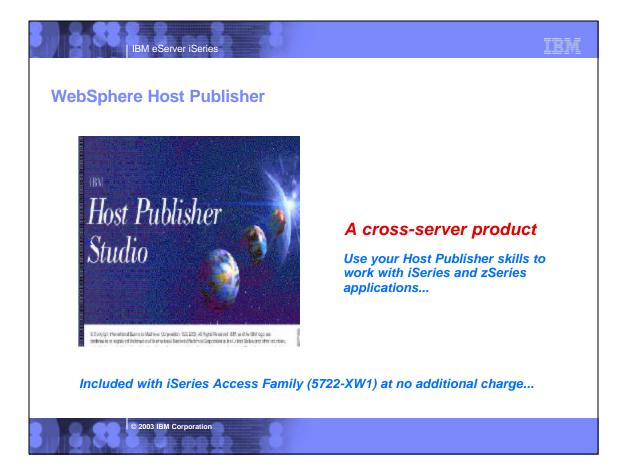


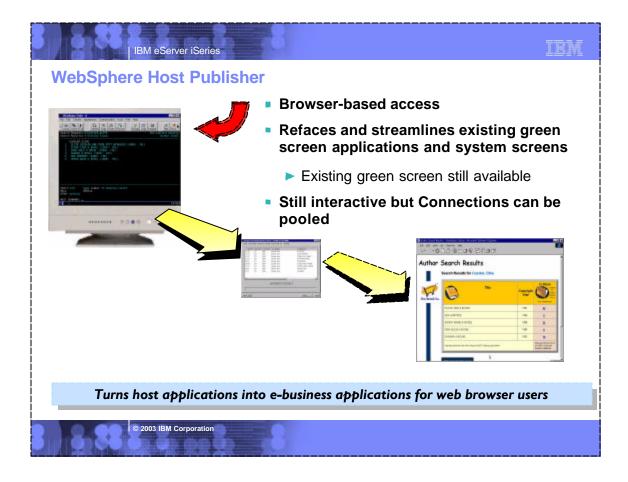






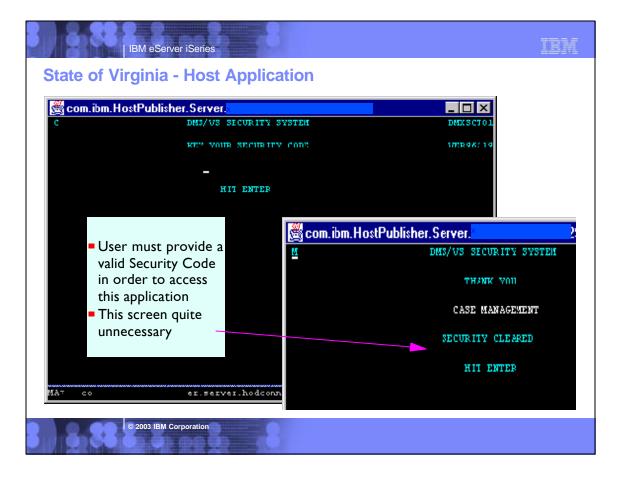


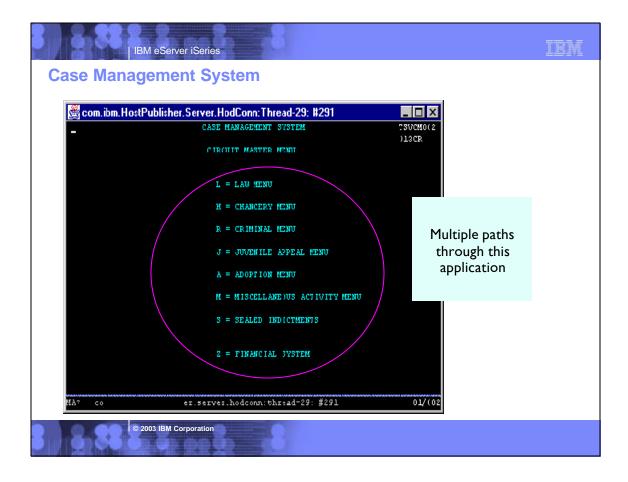


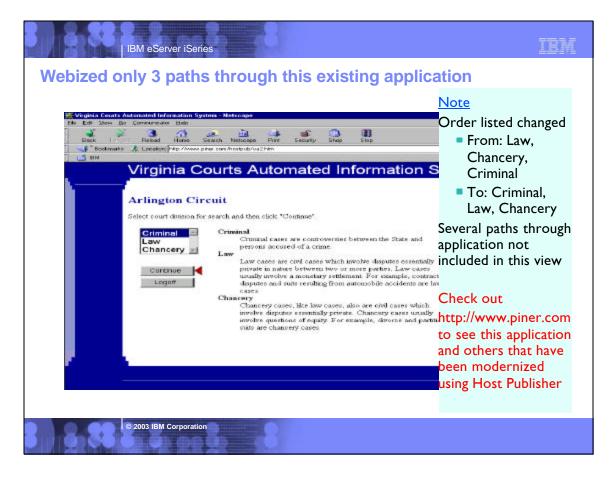




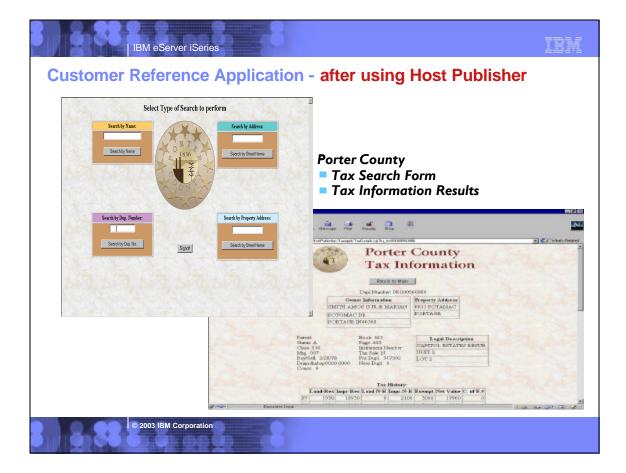


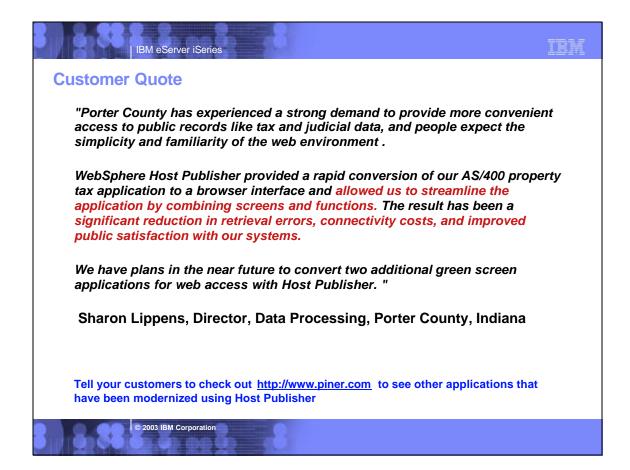


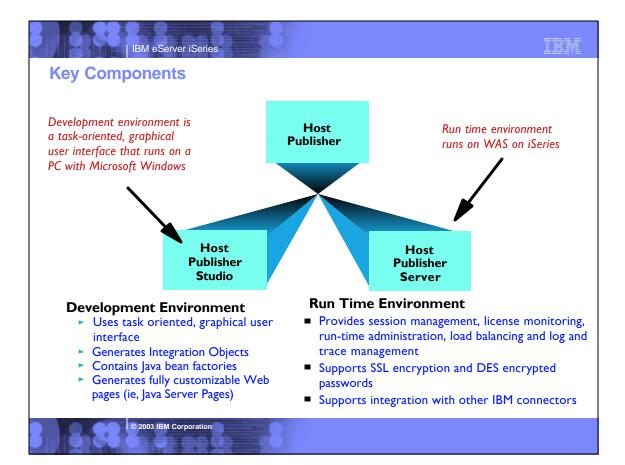


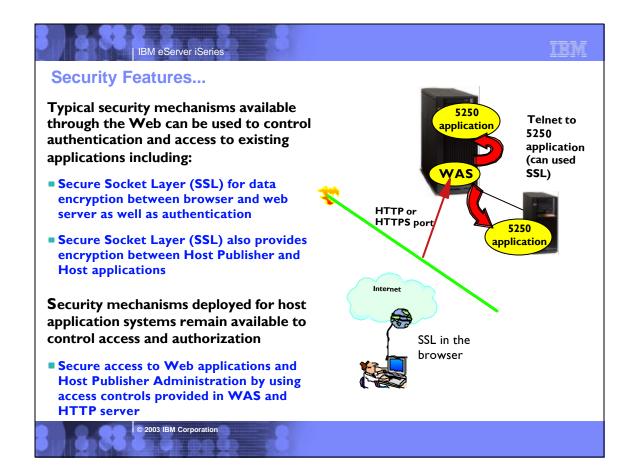


IBM eServer iSeries				
Customer Reference Application - before using Host Publisher				
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ENTER DUP NO F5-NAME F7-ADDR F9-NOTES F10-PADDR F11-BK/PG F12-RTRN				
Porter County Indiana - Tax Details Screen				
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# IBM eServer iSeries

#### What are the steps?

I. Install/configure Host Publisher Server in WAS

-get it ready for use

2. Start the WebSphere Host Publisher Studio

-Host Access (5250, 3270, VT) or Database Access (JDBC) paths

3. Step through the application or host screens -- capturing the information you wish to publish

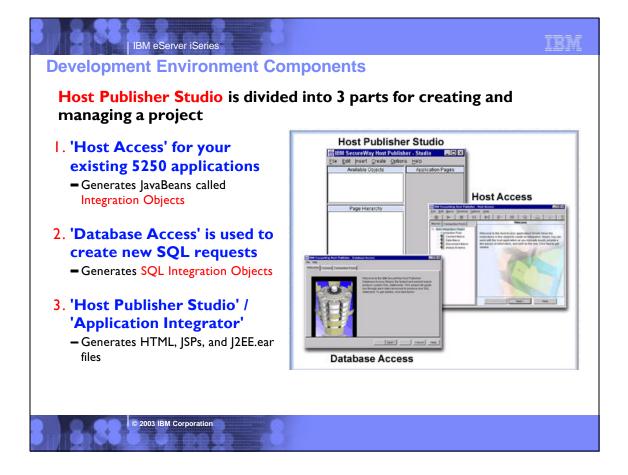
-generates Java beans called Integration Objects

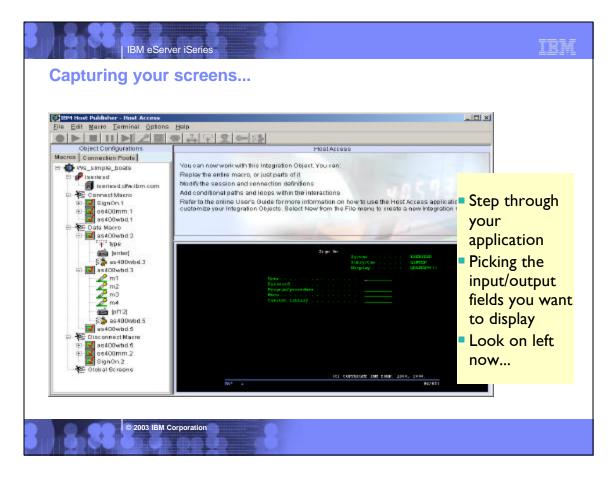
4. Import the Integration Objects into the Host Publisher Application Integrator (studio) 5. Perhaps polish your application further

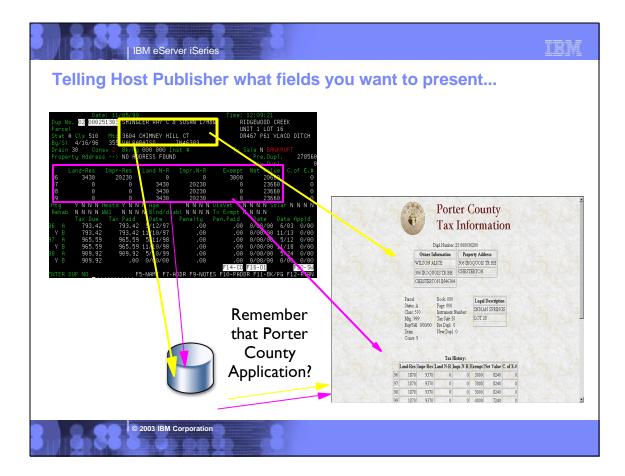
- 5. Could use a product in the WebSphere Studio family or other products to enhance the graphical look of the pages
- 6. Install the J2EE files on the application server using WAS Administrator
- 7. Ready for Web users to enter url to access the application

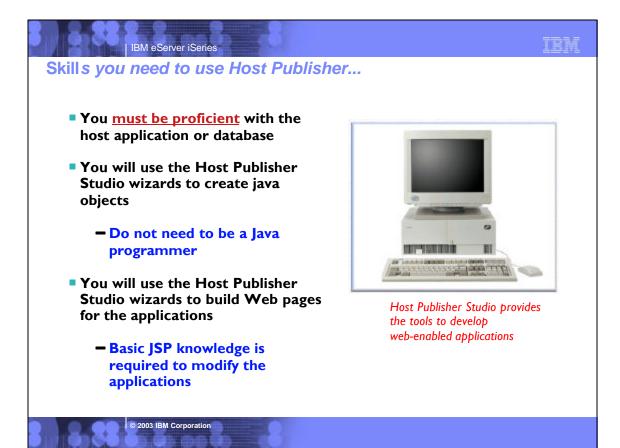
-generates JSPs and J2EE.ear files

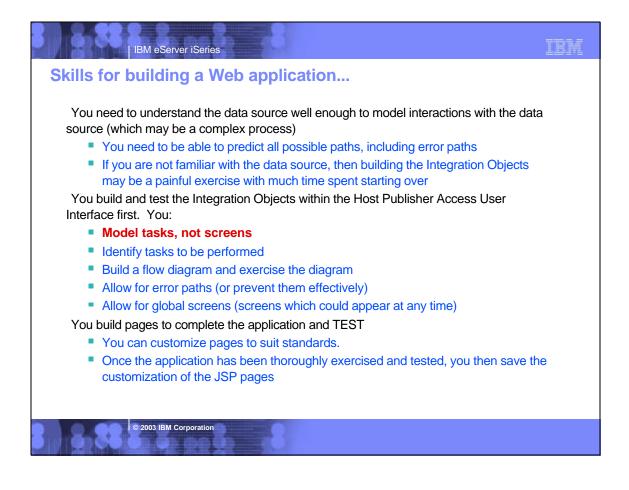
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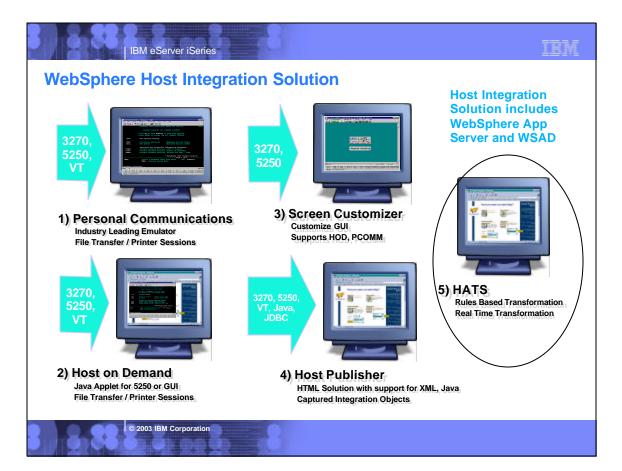


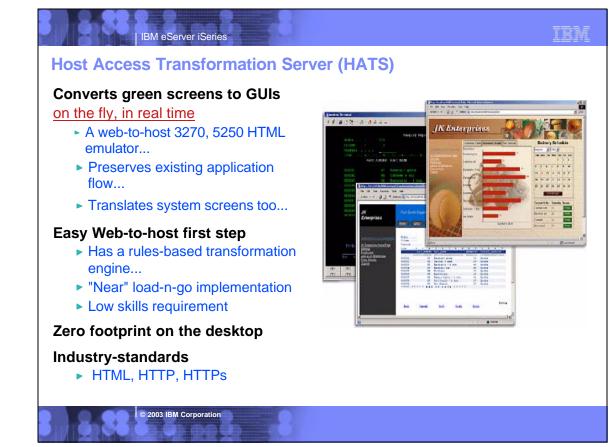




BM eServer iSeries	IBM					
Summary - WebSphere Host Pub	Summary - WebSphere Host Publisher					
Pro's	Con's					
<ul> <li>Provided at no additional charge with iSeries Access Family</li> <li>Fairly easy to install and configure on server</li> <li>Programmable navigation through applications via scripts &amp; macros</li> <li>Can merge / split applications</li> <li>Can consolidate many screens into one or break one into many</li> <li>3270 and 5250</li> <li>Non invasive - no source required</li> <li>Covered by iSeries Software Maintenace</li> </ul>	<ul> <li>Future is uncertain relative to HATS</li> <li>Studio requires education to use</li> </ul>					
Best Use: Can take an existing full-function, in-house application and present only selected paths to Web users						
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### IBM eServer iSeries

#### Capabilities ...

Designer is plug-in to WebSphere Studio Development Tools

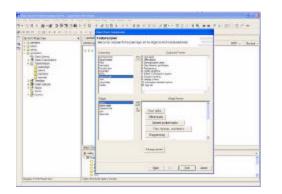
Eliminates need to customize every screen

Rules-based data stream translator

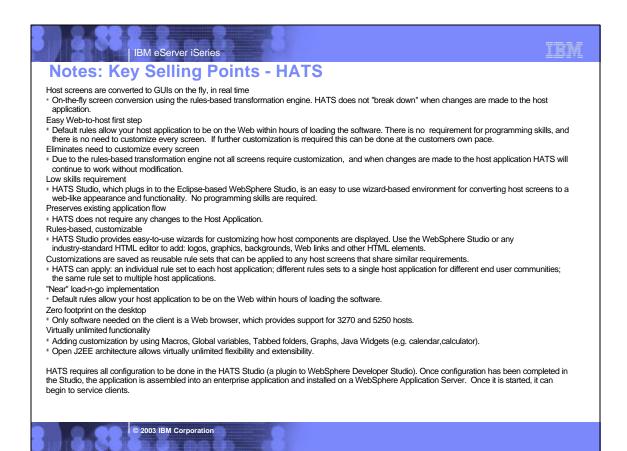
#### Additionally customizable

- Customize individual screens
- Play and record macros
- Add tabbed folders and graphs
- Store and retrieve global variables
- Can integrate with WebSphere Portal
- Skip and combine screens

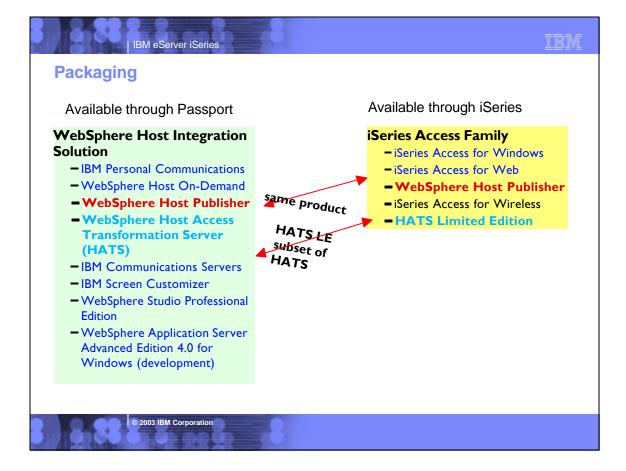
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HATS Studio plugs into the Eclipse-based WebSphere Studio, and provides an easy-to-use wizard-based environment for converting host screens to a web-like appearance and functionality



Example	The second state and se
Green Screen	
	HATS Transformation Using Default Rules



### TBM IBM eServer iSeries **Differences - HATS vs HATS LE** Features in both HATS and HATS LE JK Enterprises Default host screen transformation Configuration of host connection settings Ability to chose a standard template Ability to turn on/off application and host pads Keyboard support Features in HATS, not in HATS LE Customize individual screens Play and record macros Add tabbed folders and graphs Store and retrieve global variables Integrate with WebSphere Portal Skip and combine screens

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IBM eServer iSeries

# **Comparison of HATS and HATS LE**

Function	HATS	HATS LE
On-the-fly rules-based conversion of host screens to HTML GUIs	Yes	Yes
No need to access or modify source code	Yes	Yes
Host applications can be deployed to the Web within hours	Yes	Yes
Does not require modification when changes are made to host applications	Yes	Yes
Zero-footprint, zero-download - only code needed on the client is a Web browser	Yes	Yes
Supports iSeries subfiles	Yes	Yes
Provides native keyboard support	Yes	Yes
Secure HTTP (HTTPs) and Secure Socket Layer (SSL) security	Yes	Yes
Runs with WebSphere Application Server V4 & V5, including V5 Express	Yes	Yes
Leverages reliability and scalability of WebSphere Application Server	Yes	Yes
Works with Internet Explorer and Netscape Web browsers	Yes	Yes
Supports 5250 hosts	Yes	Yes
Supports 3270 hosts	Yes	No
Requires a WebSphere Studio installed on PC (either V4 or V5) to customize HTML	Yes	No
Uses Web-based Configurator and Management tool to customize HTML	No	Yes
Runs on iSeries Server Platform	Yes	Yes
Runs on AIX. Windows. Solaris. and zSeries Server Platforms	Yes	No

# IBM eServer iSeries

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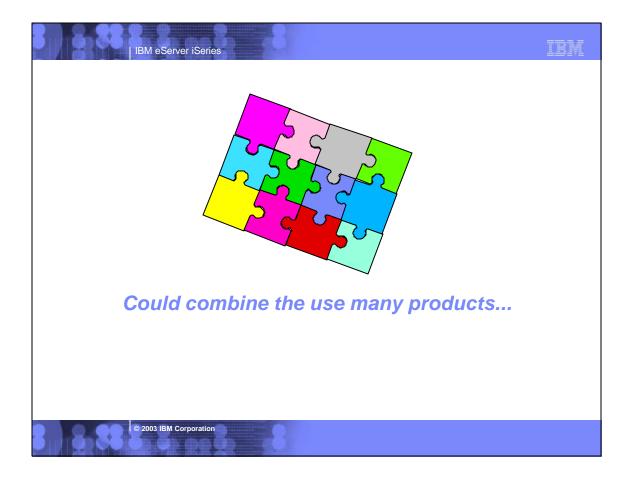
# Comparison of HATS and HATS LE

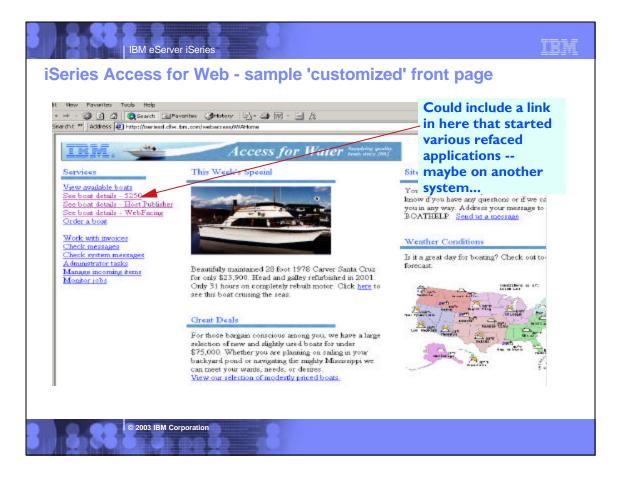
Function	HATS	HATS LE
Any individual screen can be fully customized	Yes	No
Generate and run macros	Yes	No
Skip and combine screens	Yes	No
Store & retrieve data in global variables	Yes	No
Enter data on behalf of end user	Yes	No
Convert text entry fields to valid value lists	Yes	No
Create tabbed folders (with easy to use wizards)	Yes	No
Create bar & line graphs (with easy to use wizards)	Yes	No
Redirect users to other URLs	Yes	No
Globally replace text	Yes	No
Add business logic	Yes	No
Print locally with PDF printing function	Yes	No (1)
Use HATS portlet to integrate with WebSphere Portal	Yes	No

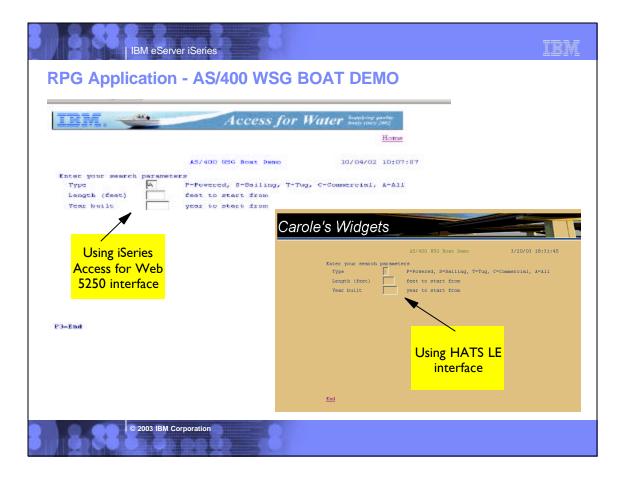
(1) Can combine use of iSeries Access for Web to work with spooled printer output and convert to PDF

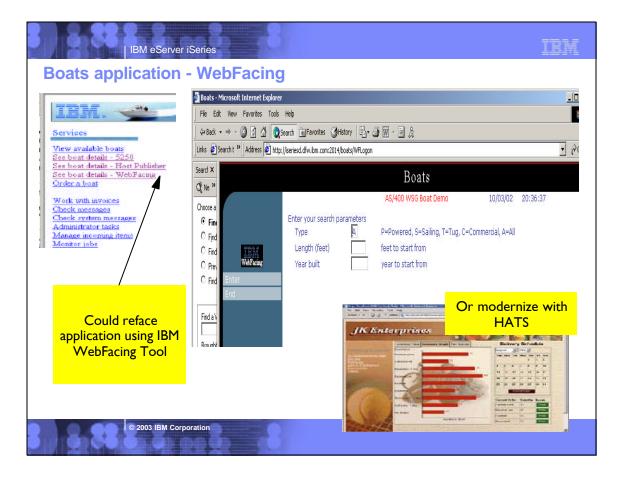
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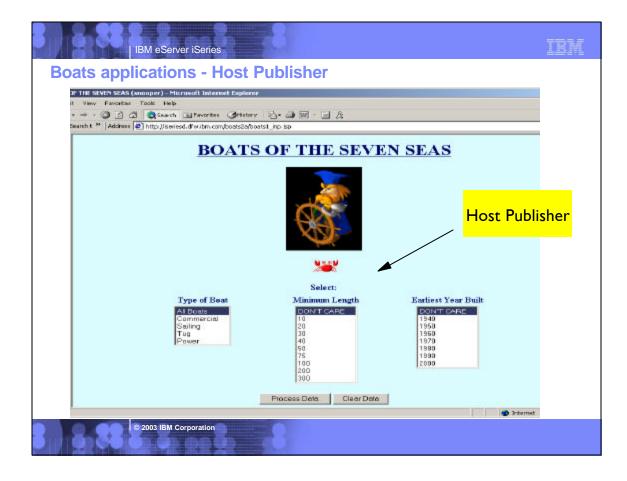
IBM











Main Features					
	iSeries Access for Web	HATS LE	Host Publisher	IBM WebFacing Tool	HATS
<ul> <li>Web-enables existing Applications</li> <li>Based on Java Technology</li> <li>Presentation</li> </ul>	<ul> <li>Yes</li> <li>Yes</li> <li>HTML, JSPs, Servlets</li> </ul>	<ul> <li>Yes</li> <li>Yes</li> <li>HTML, JSPs, Servlets</li> </ul>	<ul> <li>Yes</li> <li>Yes</li> <li>HTML, JSPs, ServletsYes</li> </ul>	<ul> <li>Yes</li> <li>Yes</li> <li>HTML, JSPs, Servlets</li> </ul>	<ul> <li>Yes</li> <li>Yes</li> <li>HTML, JSPs, Servlets</li> </ul>
Runtime Environment	WAS     ASF Tomcat	• WAS	- WAS	• WAS	• WAS
Supported Browsers	<ul> <li>MS Internet Explorer 5.0 +</li> <li>Netscape 4.7 (AIX, Linux) and 6.2 (Windows</li> <li>Opera 5.0 (Linux), and 6.0 (Windows)</li> </ul>	<ul> <li>MS Internet Explorer 5.0 +</li> <li>Netscape 6.0</li> <li>Netscape 4.72 (no keyboard support)</li> </ul>	MS Internet Explorer 5.0 +     Netscape 4.x or later versions	MS Internet Explorer 5.0 +	<ul> <li>MS Internet Explorer 5.0 +</li> <li>Netscape 6.0</li> <li>Netscape 4.72 (no keyboard support)</li> </ul>
Interactive Feature Required	No - unless using 5250	Yes	Yes	No - with V5R2 and new hardware	Yes
Supported Host Interfaces	5250	5250	5250, 3270, VT52, VT100, VT220	5250 - from DDS Source. Source must be available for each screen format	5250, 3270
Web-enables System Functions	Yes	Yes	Yes	No - limited support for selected commands in WDS V5	Yes

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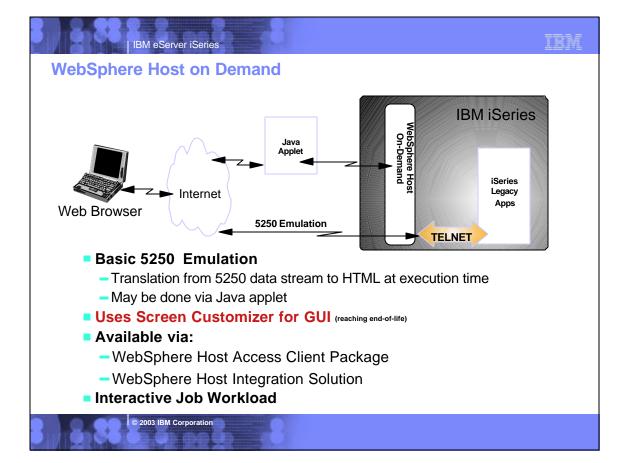
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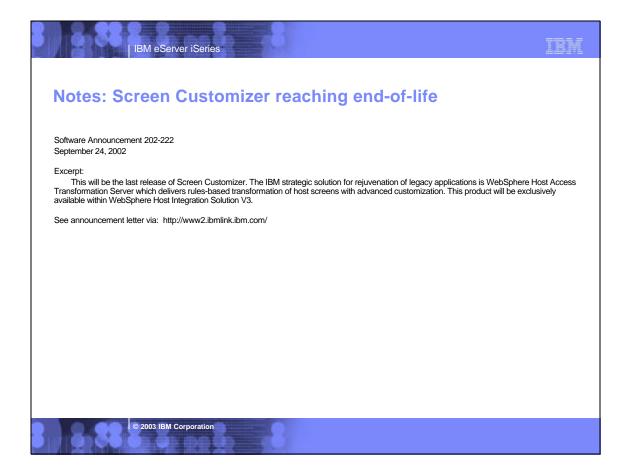
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#### TBM

### **Main Features (continued)**

	iSeries Access for Web	HATS LE	Host Publisher	IBM WebFacing Tool	HATS
Host Application modernization	No, other than runs in browser	No, other than runs in browser	Yes	Yes	Yes
SQL Database Access	Yes	No	Yes	No	No
Code Changes Required	No	No	No	No - although may choose to optimize for the Web	No
Programming effort to convert host interface to Web interface	None	None	Using Studio: 1. Record host screen navigations and create IOs that encapsulate those navigations. 2. Build JSP pages that require IO input and render IO output	None - unless DDS keywords are not supported by WebFacing	Two methods: 1. default parameters - no pgming effort 2. customization - tracing application execution path, defining rules
Customization	Can customize what iSeries functions user can access	Customize screen look and keyboards	Yes - JSP pages can be customized, and IOs can be reused in a WAS application (Servlet, Web Services, EJB)	1. CODE designer 2. Cascading style sheets 3. Web Tools	1. Web Tools
Allows exposure of Java artifacts to other tools	No	No	No	Yes	No - may create Java extensions to the application
Merge/split of application screens	No	No	Yes - handled by macro recorder	Yes -with programming changes	Yes - handled by macro recorder











The products highlighted in this presentation can all be positioned as complementary to each other

Each product brings great strengths in a particular area...

You need to determine what product is right for the task at hand...

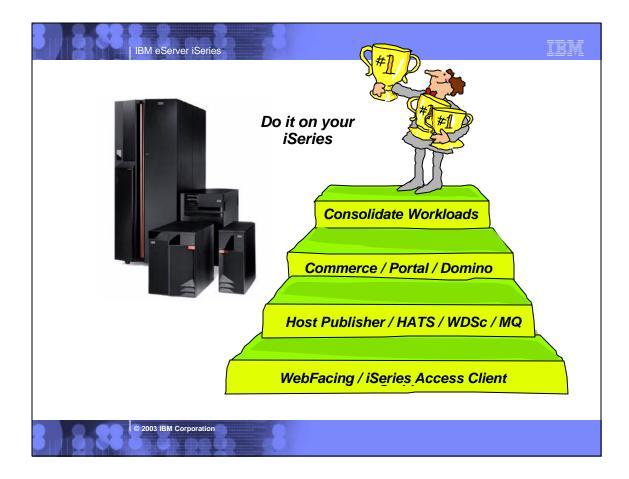
- One may be right for this task...
- But the next project might well be better suited for one of the other products...
- Another project might call for a combination of these tools

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Windows

Browsers (Internet Explorer, Netscape...)





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