



IBM Software Group

# IBM WebSphere Host Access Transformation Services (HATS) V5

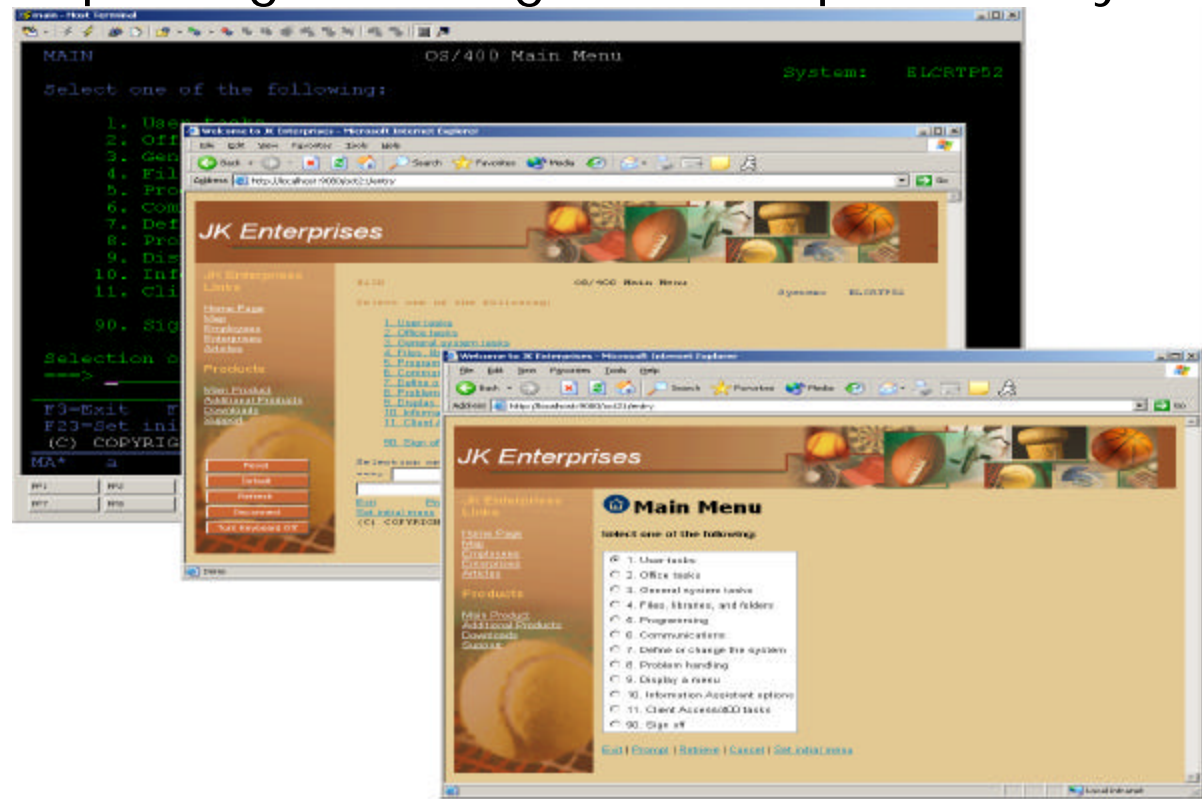
**WebSphere** software



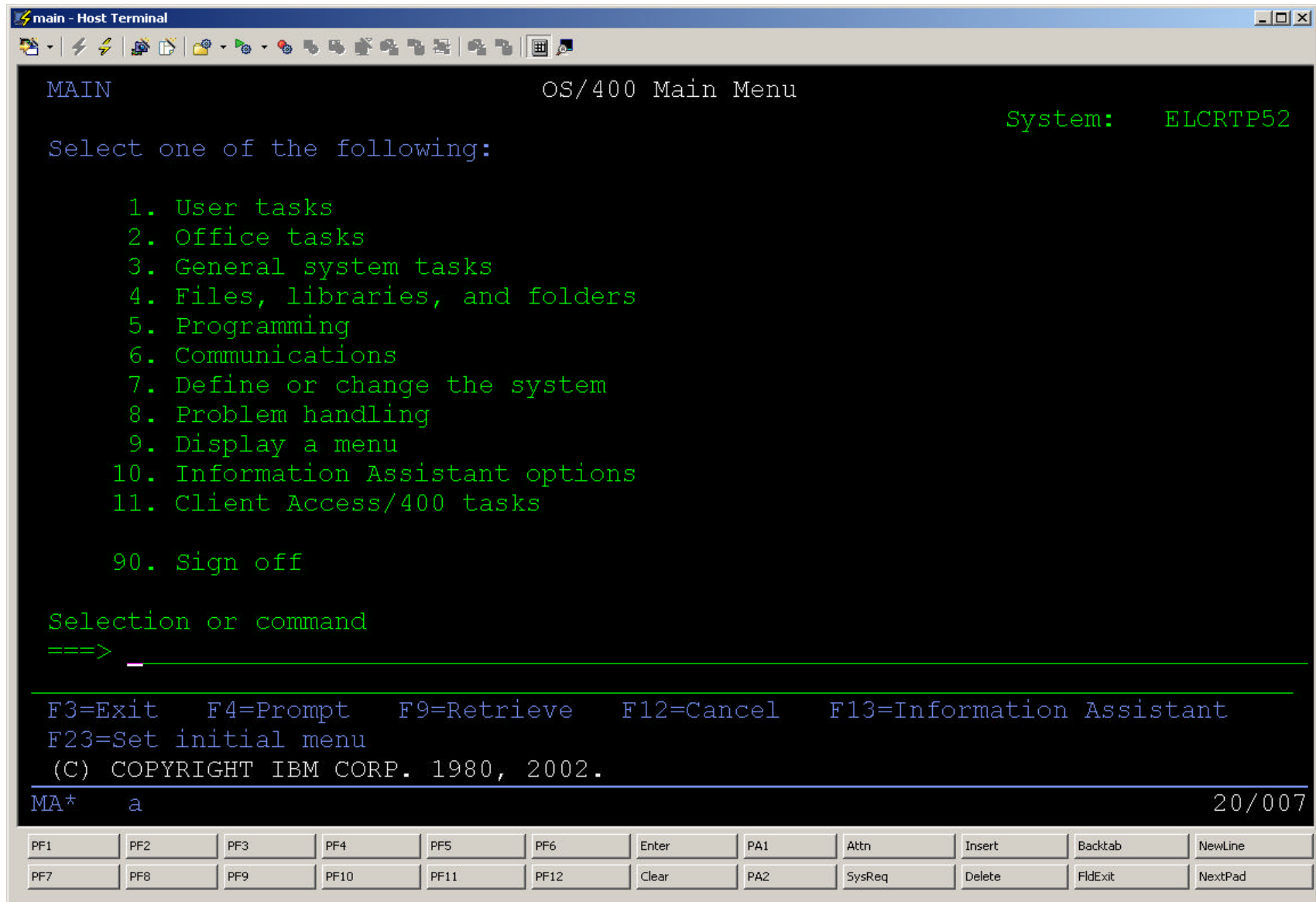
 e-business software

# What is Host Access Transformation Services (HATS)?

- A rules-based Web-to-host transformation engine...
- that provides customized access to one or more host applications...
- and dynamically creates a new Web HTML interface,
- while significantly improving the navigation and productivity of legacy applications.



# Traditional Green Screen



# HATS Transformation Using Default Rules

Welcome to JK Enterprises - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media Mail Print Mailbox Favorites

Address <http://localhost:9080/oct21/entry> Go

## JK Enterprises

**JK Enterprises Links**

- [Home Page](#)
- [Map](#)
- [Employees](#)
- [Enterprises](#)
- [Articles](#)

**Products**

- [Main Product](#)
- [Additional Products](#)
- [Downloads](#)
- [Support](#)

**MAIN OS/400 Main Menu** System: ELCRTP01

Select one of the following:

- [1. User tasks](#)
- [2. Office tasks](#)
- [3. General system tasks](#)
- [4. Files, libraries, and folders](#)
- [5. Programming](#)
- [6. Communications](#)
- [7. Define or change the system](#)
- [8. Problem handling](#)
- [9. Display a menu](#)
- [10. Information Assistant options](#)
- [11. Client Access/400 tasks](#)

[90. Sign off](#)

Selection or command

====>

[Exit](#) [Prompt](#) [Retrieve](#) [Cancel](#) [Information Assistant](#)

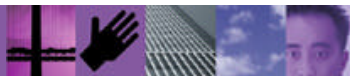
[Set initial menu](#)

(C) COPYRIGHT IBM CORP. 1980, 2000.

Local intranet

## What is Host Access Transformation Services (HATS)?

- A rules-based Web-to-host transformation engine...
- that provides customized access to one or more host applications...
- and dynamically creates a new Web HTML interface,
- while significantly improving the navigation and productivity of legacy applications.
  - *Default rules allow host applications to be on the Web within hours of loading the HATS software*
  - *No requirement for programming skills*
  - *No need to customize every screen*
  - *No need to access or modify source code*



## What is HATS?

- A rules-based Web-to-host transformation engine...
  - that provides customized access to one or more host applications...
  - and dynamically creates a new Web HTML interface,
  - while significantly improving the navigation and productivity of legacy applications.
- 
- *Merge data from various sources into a single Web interface*
  - *Supports transformation and data objects from 3270 and 5250 hosts*
  - *Supports data objects from VT hosts*
  - *Add further customization at your own pace*

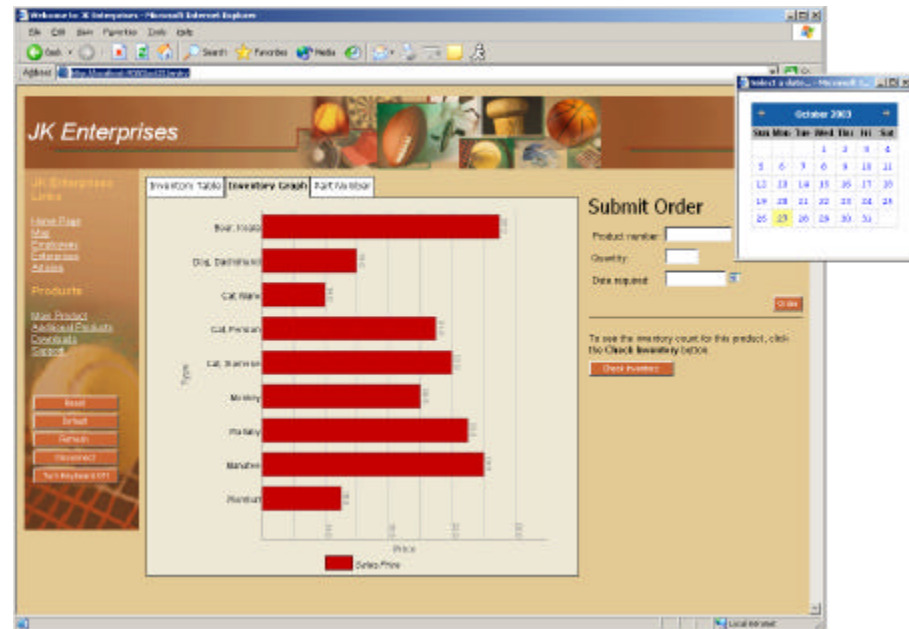
## What is HATS?

- A rules-based Web-to-host transformation engine...
  - that provides customized access to one or more host applications...
  - and dynamically creates a new Web HTML interface,
  - while significantly improving the navigation and productivity of legacy applications.
- 
- *Zero-footprint, zero-download*
  - *Only software needed on the client is a Web browser*
  - *Real-time, on-the-fly transformation means that HATS does not "break down" when changes are made to the host application*



# What is HATS?

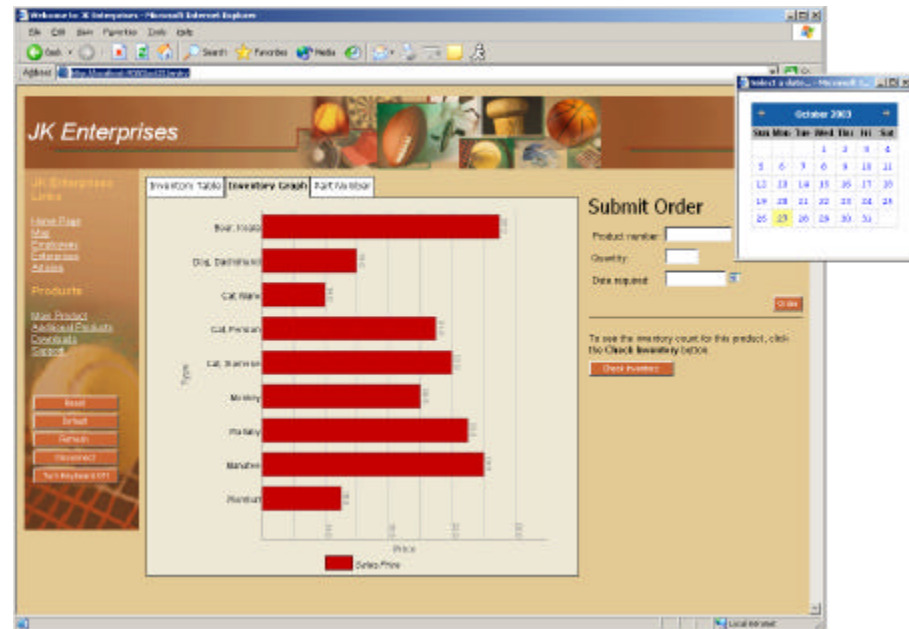
- A rules-based Web-to-host transformation engine...
- that provides customized access to one or more host applications...
- and dynamically creates a new Web HTML interface,
- while significantly improving the navigation and productivity of legacy applications.





# Improves Navigation & Productivity of Host Applications

- Macros & global variables
  - f* Skip unnecessary screens; combine screens; split screens
  - f* Enter data on behalf of the end user
  - f* Store end user input as global variables; prefill text entry fields
- Screen customization
  - f* Add buttons, hot links, drop-down menus, valid value lists
  - f* Modify graphics, fonts, colors, and layout
- Tabbed folders
  - f* Wizard-based
- Bar and line graphs
  - f* Wizard-based
- Add business logic
- Local print support
- Native keyboard support



# WebSphere-based Architecture

- WebSphere Studio

- f* HATS Studio is a plug-in to WebSphere Studio

- Wizard-based

- No programming skills required

- WebSphere Application Server and WebSphere Portal Server

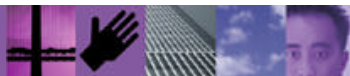
- f* HATS leverages WebSphere Application Server (WAS) or WebSphere Portal at runtime

- HATS Studio creates a .ear file that is deployed to either platform

- f* HATS is an open, flexible environment for creation of host portlets

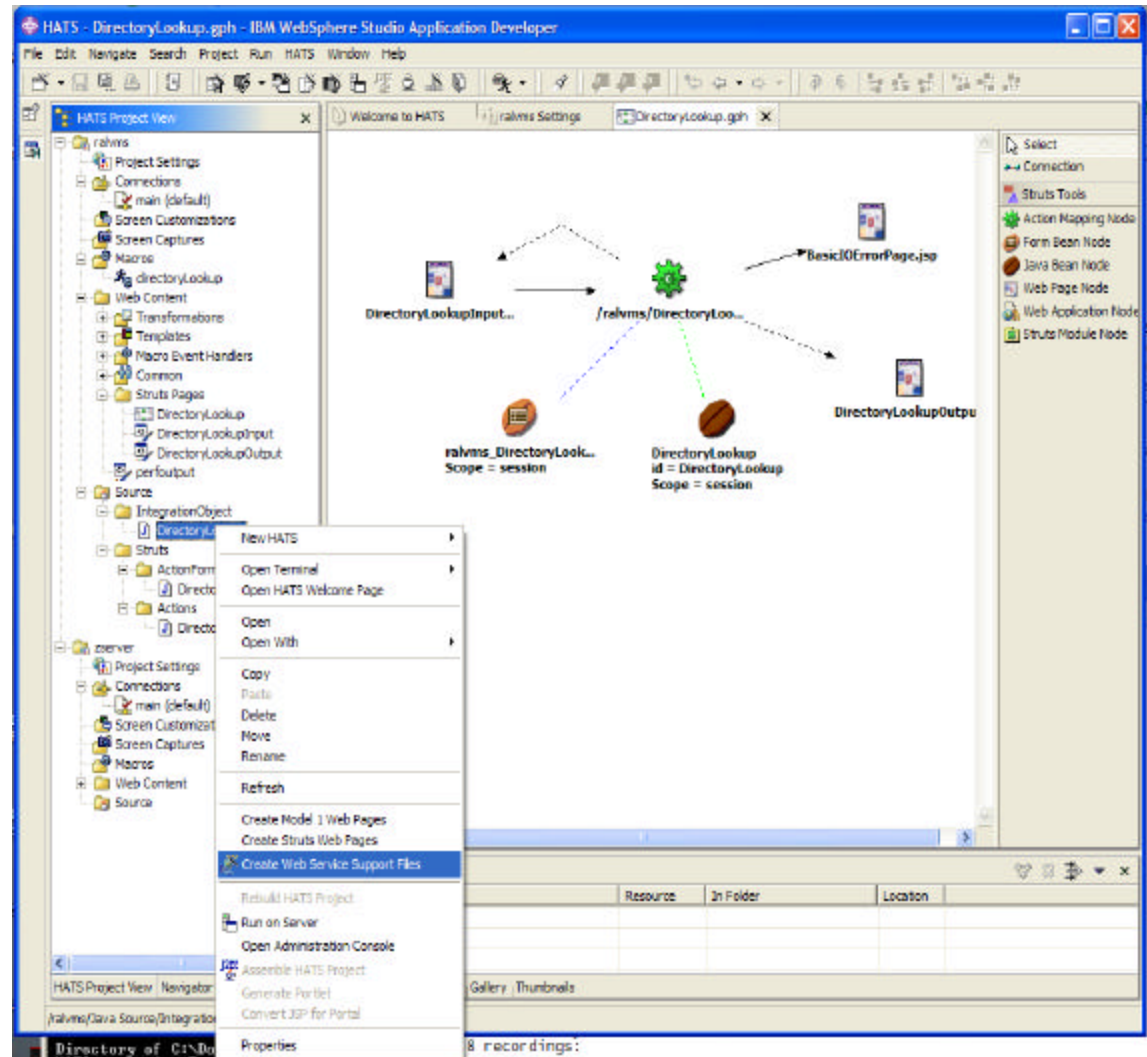
- HATS customization capabilities are ideal for use in portal environment

- HATS can reduce the amount of information displayed from a host screen, showing only selected data



# Application to Application Integration

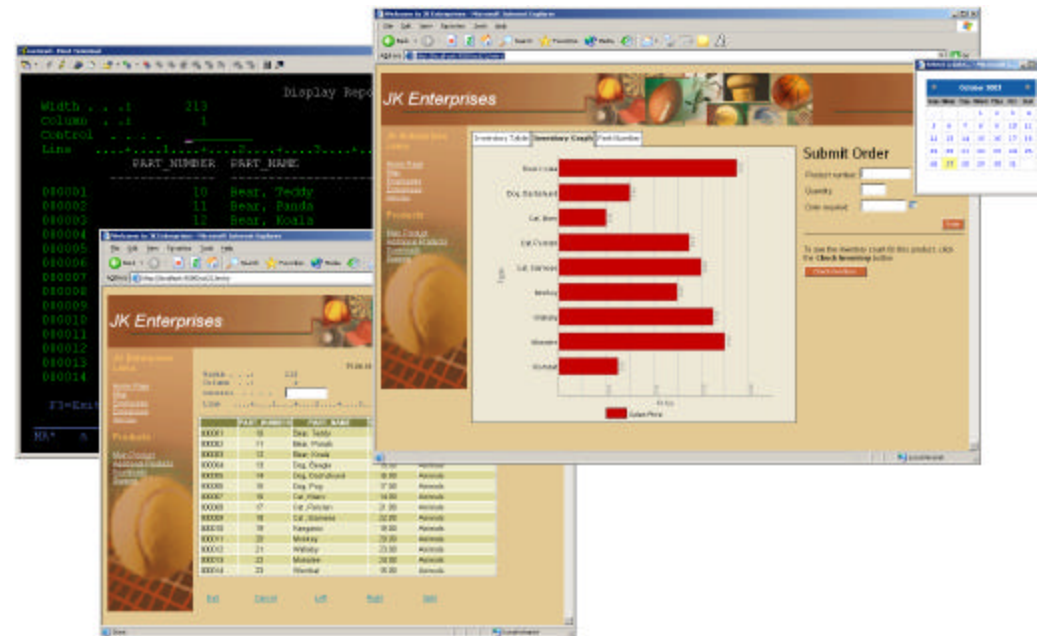
- Create Web Services from programmed interaction of one or more host applications.
  - Generate Java Beans and EJBs from macros that navigate host applications
  - Use WebSphere Studio to add SOAP and WSDL components
- Supports session pooling
  - Create cached, logged-on, ready to use host connections
- Supports Struts-based development
  - Create and modify JSP-based Web transactions using Struts model 2 development



## HATS Benefits:

### Increased Productivity - Reduced Training Costs

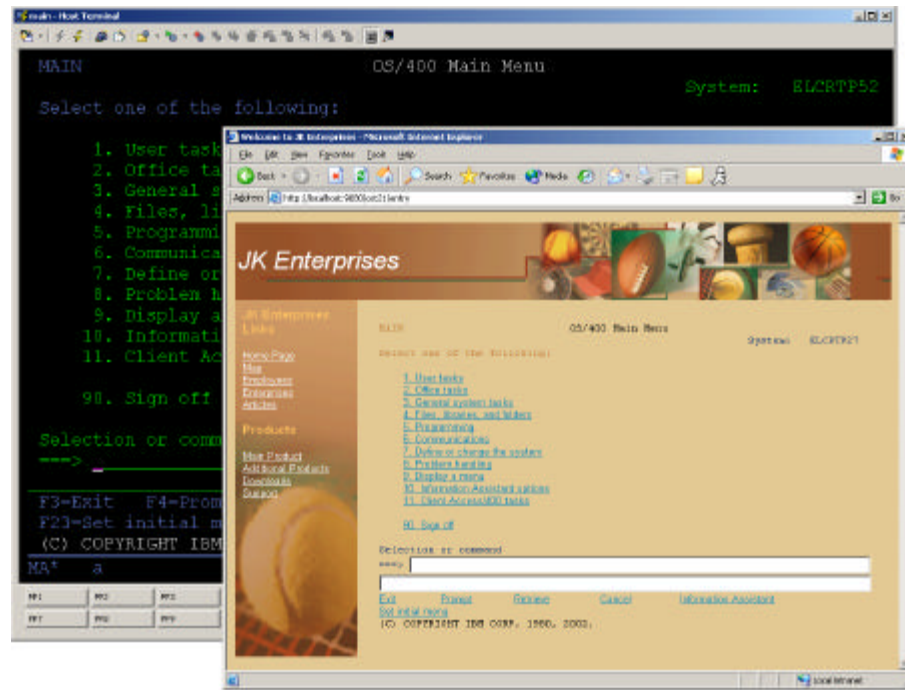
- Increases productivity and reduces training costs as it extends host applications to the widest possible audience...
  - by delivering HTML to Web browsers,
  - improving work flow from multiple applications,
  - and presenting host screens as familiar Web pages.



## HATS Benefits:

### Entire Application on the Web on Day 1

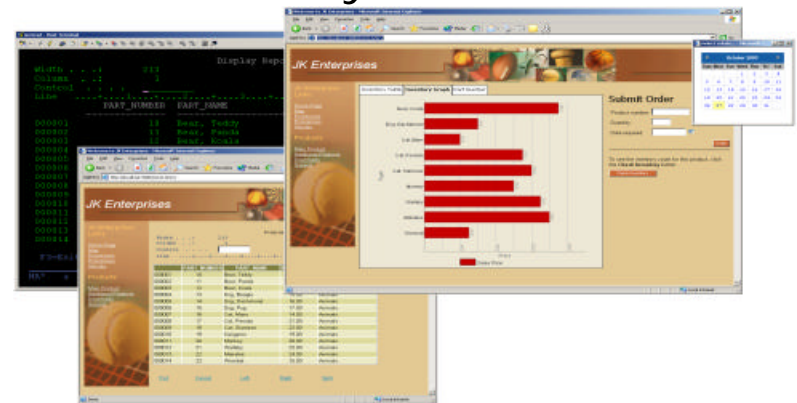
- Host applications can be quickly deployed to the Web...
  - with green screens converted to GUIs according to HATS default rules...
  - and further customization added as time and resources permit.



## HATS Benefits:

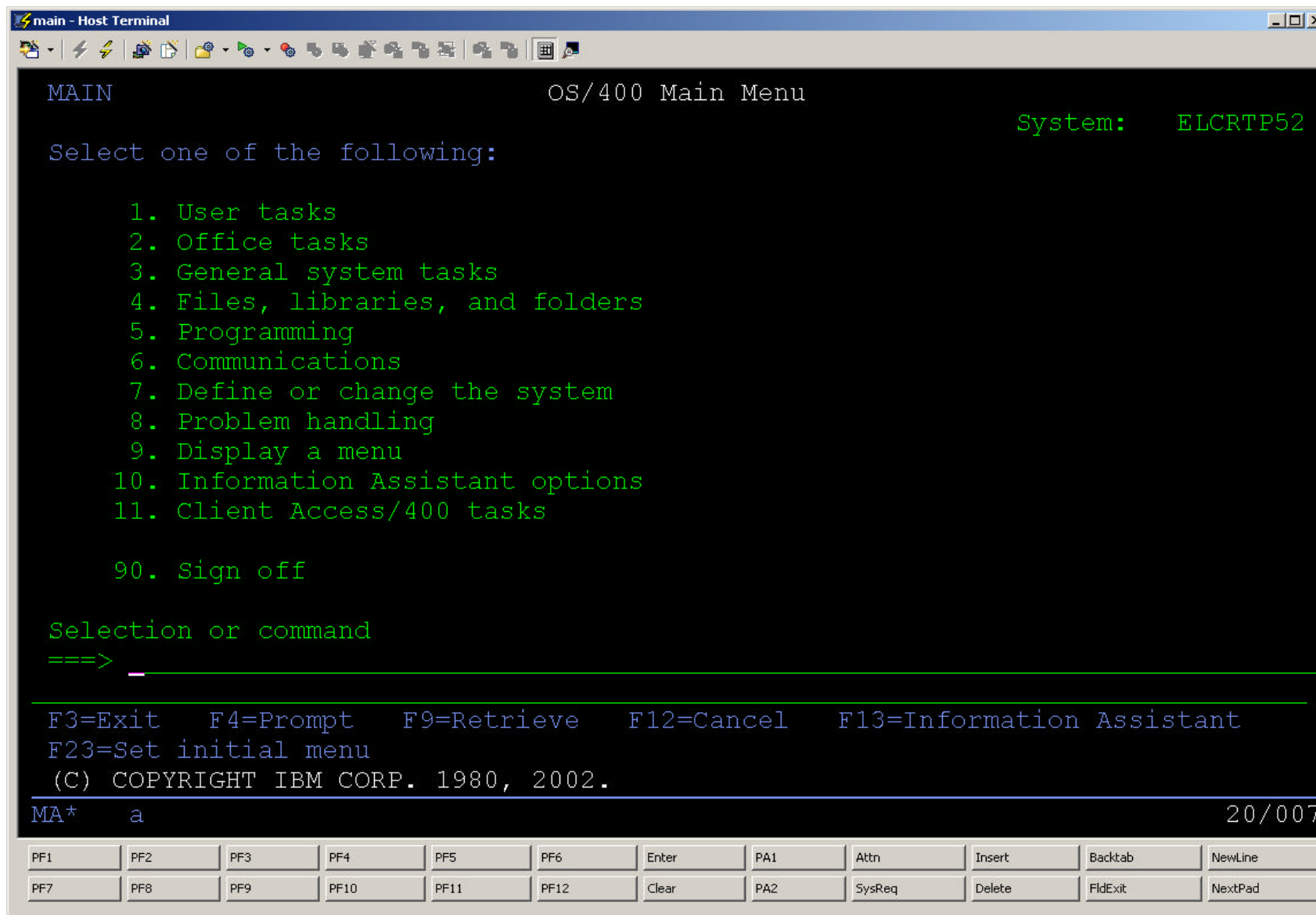
### WebSphere Platform Leverage

- HATS is based on the industry leading WebSphere platform.
  - WebSphere Application Server leads the industry with a 37% market share (Gartner, 5/03).
- HATS leverages the security, reliability, and scalability of the WebSphere Application Server and WebSphere Portal...
  - as well as the Eclipse-based open standards of the WebSphere Studio tools.
  - HATS' open J2EE architecture allows for virtually unlimited flexibility and extensibility.





# Traditional Green Screen





# HATS Studio

The screenshot displays the HATS Studio interface. On the left, a terminal window shows a main menu with 11 numbered options. The 'Insert Component Tag' dialog is open, showing 'Rendering Options' and a list of components. The 'Component Preview' shows the full menu, while the 'Widget Preview' shows a list of the first seven items. Three 'Preview' windows on the right show different stages of the transformation: a list of items, a list of items with radio buttons, and a list of items with buttons.

**Insert Component Tag**

Screen Region  
Select a region of the host screen with the mouse or enter the coordinates of the region.

Select a screen: Os\_400Ma

**Rendering Options**  
Select a host component for this screen region and the widget into which it will be transformed. If necessary, modify the settings.

**Components**

- Command line
- Field
- Field table
- Function key
- Input field
- Input field with hints
- Selection list
- Subfile
- Text
- Visual table

**Component Preview**

- User tasks
- Office tasks
- General system tasks
- Files, libraries, and folders
- Programming
- Communications
- Define or change the system
- Problem handling
- Display a menu
- Information Assistant options
- Client Access/400 tasks
- Sign off

**Widget Preview**

- User tasks
- Office tasks
- General system tasks
- Files, libraries, and folders
- Programming
- Communications
- Define or change the system

**Preview**

6. Communications
2. Office tasks
3. General system tasks
4. Files, libraries, and folders
5. Programming
6. Communications
7. Define or change the system
8. Problem handling
9. Display a menu
10. Information Assistant options
11. Client Access/400 tasks
90. Sign off

**Preview**

- 1. User tasks
- 2. Office tasks
- 3. General system tasks
- 4. Files, libraries, and folders
- 5. Programming
- 6. Communications
- 7. Define or change the system
- 8. Problem handling

**Preview**

- User tasks
- Office tasks
- General system tasks
- Files, libraries, and folders
- Programming
- Communications
- Define or change the system
- Problem handling

Click here to see what the transformation (with the current component) will look like with the associated template. [Full page preview](#)

< Back Next > Finish Cancel

## Defining Your Own Rule Sets

- HATS Studio provides easy-to-use wizards for customizing how host components are displayed
- Import HTML from your Web page
  - Drag and drop HTML elements to create new customized template
- Use WebSphere Studio or any industry-standard HTML editor to add:
  - Logos, graphics, backgrounds, Web links and other HTML elements
- Customizations are saved as reusable rule sets that can be applied to any host screens that share similar requirements
- HATS can apply:
  - an individual rule set to each host application
  - different rules sets to a single host application for different end user communities
  - the same rule set to multiple host applications



# HATS Minor Modifications



# HATS - Combining Screens

The screenshot shows a Microsoft Internet Explorer browser window displaying the 'JK Enterprises' website. The page features a search results table with 32 records found. Overlaid on the browser is a terminal window titled 'Display Report' showing a list of data with columns: Width, Column, Control, and Line. The terminal window also shows a 'PART\_N' column and some asterisks at the bottom.

ID	Part	Name	Price	Category
000001	10	Bear, Teddy	26.00	Animals
000002	11	Bear, Panda	28.00	Animals
000003	12	Bear, Koala	25.00	Animals
000004	13	Dog, Beagle	15.00	Animals
000005	14	Dog, Dackshund	16.00	Animals
000006	15	Dog, Pug	17.00	Animals
000007	16	Cat, Manx	14.00	Animals
000008	17	Cat, Persian	21.00	Animals
000009	18	Cat, Siamese	22.00	Animals
000010	19	Kangaroo	19.00	Animals
000011	20	Monkey	20.00	Animals
000012	21	Wallaby	23.00	Animals
000013	22	Manatee	24.00	Animals
000014	23	Wombat	15.00	Animals
000015	24	Bird, Cockatoo	19.00	Animals
000016	25	Bird, Macaw	18.00	Animals
000017	26	Chinchilla	19.00	Animals
000018	27	Ferret	20.00	Animals
000019	28	Hampster	17.00	Animals
000020	29	Rabbit	23.00	Animals
000021	30	Alligator	21.00	Animals
000022	31	Crocodile	22.00	Animals
000023	32	Dinosaur	20.00	Animals
000024	33	Frog	12.00	Animals
000025	34	Bobcat	18.00	Animals
000026	35	Mountain Lion	19.00	Animals
000027	36	Jaguar	17.00	Animals



# HATS Benefits:

## Combine/Integrate

```

ModConn:localhost:localhost:server1:ubsdemo.ear #1
SC4103      Check Entitlement by Customer number      RALYSC1
5/16/02    10:13:31

Support Center/400 library ..... DEMOBOX20

Type choices, press Enter.

Customer number .....
Location code .....
Support Center/400 problem number ..
Associated problem .....
    
```

```

ModConn:localhost:localhost:server1:ubsdemo.ear #5
File Edit View Options Help
100      Search Results

For a second, press a function key near type an Action Code and press Enter.
Address  DnsQuery  DnsC-Lite  DnsGet  DnsList  DnsRefresh
Problem list  Refresh/Agree  Refresh/No  Refresh/Yes  Refresh/Agree
Refresh  Refresh/No  Refresh/Yes  Refresh/No  Refresh/Yes

Line 1 to 1 of 43
Column 1 to 41 of 43
GREAT94 AMTALL ANTIHKE ATLANTA ATLASS AUSTIN BETHESDA BUCKA BOWLING BURLINPT
CRAGHPT CHICAGO CT 3ALAL DALAD DAYTON FINEWILL 33CMER IP 1EX 19709 1400E3
Name      Age Tax-Line Dept# Mail      User ID Mail
Carter-Willis, A. P. (Antoinette) 594-0004 Reg  IBMUSM25  ACARTERW  WEZA1
Willis, Al, Albert F. (Al) 799-7224 Reg  IBMUSM24  AFWILLIS  B-HAM
Willis, Al L. 293-2768 Mgr  IBMUSM08  ALW883    P524
Willis, Andre R. (Dre) 888-5081 Sup  IBMUSM22  AWILLIS   H07R1
Willis, Andy B. 419-1518 Reg  IBMUSM49  ANDYWILL  022D
Willis, Art *CONTRACTOR* 000-0000 Contr  IBMUSM38  AWILLIO   B676/C
Willis, Arthur W. (Wayne) 000-0000 Reg  IBMUS     WILLISW   na
    
```

```

C:\Documents and Settings\jhd\My Recent...
Date Time Size File Name
05/18/2003 02:21 96 <DIR> Willisies
05/28/2003 02:22 96 <DIR> vsdese
05/08/2003 05:21 96 <DIR> vslich
05/03/2003 10:40 96 <DIR> 3IND008
05/16/2003 04:35 96 <DIR> win_jse_181
05/08/2003 04:42 96 <DIR> vsod91
05/23/2003 04:25 96 <DIR> vsod92
05/03/2003 10:40 96 14,496 Spooler.log
14 Files(s) 4,178,001 bytes free
38 Dir(s) 22,888,353,792 bytes free
    
```

ubsdemo - Microsoft Internet Explorer

Address: http://localhost:9083/

Financial Planning | Wealth Management | Retirement Planning | Investment Solutions | Lending Solutions | Business Services

JK Funds | Homepage > About Wealth Management in the US > Home

**Market Update**

Dow Jones	9959.71	37.85
NASDAQ	1918.26	13.61
S&P 500	1062.24	3.19
30 Yr Bond	5.191	0.04

**Data from 5250 Source**

SC4103      Check Entitlement by Customer number      RALYSC1  
5/16/02      10:13:31

Support Center/400 library ..... DEMOBOX20

Type choices, press Enter.

Customer number .....

Location code .....

Support Center/400 problem number ..

Associated problem .....

Market info

- 5250 HTML Client
- 5270 HTML Client
- 5270 Thin Client
- 5250 Thin Client
- VT Thin Client
- Combined Thin Clients

Reset

Default

Refresh

Disconnect

Turn Keyboard Off

Quotes delayed by at least 20 minutes

F2=Search Customer database      F3=Exit      F6=Create profile      F10=Messages  
F12=Cancel      F14=Inventory search      F20=Support services

**Our Perspective**

- Municipal Market Commentary - 12/01/03
- Basis Points - 12/11/03
- On the Run - 12/08/03
- As We See It - 12/08/03
- Mary Farrell's Market View - 11/11/03
- Municipal Market in Perspective - 11/03/03
- Credit Market Relative Value (Summary Note) - 11/10/03

**Data from 3270 Host**

Name	Phone	Type	Node	User	Mail
Carter-Willis, A. P. (Antoinette)	596-3739	Reg	IBMUSM25	ACARTERW	WEZA1
Willis Jr, Albert F. (Al)	799-7224	Reg	IBMUSM24	AFWILLIS	B-HAM
Willis, Al L.	293-2768	Mgr	IBMUSM08	ALW883	P524
Willis, Andre R. (Dre)	888-5081	Sup	IBMUSM22	AWILLIS	H07R1
Willis, Andy B.	419-1518	Reg	IBMUSM49	ANDYWILL	022D
Willis, Art *CONTRACTOR*	000-0000	Contr	IBMUSM38	AWILLIO	B676/C
Willis, Arthur W. (Wayne)		Reg	IBMUS	WILLISW	na

**Results from VT Data Source**

Query Directory: c:\

93 Dir(s) 22,888,353,792 bytes free

14 File(s) 4,175,691 bytes

**Login**

UserName

Password

Go

→ First Time  
→ Enroll  
→ Tour

**Highlights**

- Think Year-End Planning
- JK Funds reports third quarter net profit of \$2,243 million
- Read the NASD's June 25, 2003 Investor Alert Regarding Class B Mutual Fund Shares
- Read the NASD's Investor Alert Regarding Mutual Fund Breakpoint Discounts
- View Current CD Rates

**Career Opportunities**

- Financial Advisor Careers
- Career Opportunities

# HATS Customized Transformation

**JK Enterprises**

**JK Enterprises Links**

- [Home Page](#)
- [Map](#)
- [Employees](#)
- [Enterprises](#)
- [Articles](#)

**Products**

- [Main Product](#)
- [Additional Products](#)
- [Downloads](#)
- [Support](#)

Reset  
Default  
Refresh  
Disconnect  
Turn Keyboard Off

**Inventory Table** | **Inventory Graph** | Part Number

Type	Sales Price
Bear, Koala	25.0
Dog, Dachshund	16.0
Cat, Manx	14.0
Cat, Persian	21.0
Cat, Siamese	22.0
Monkey	20.0
Wallaby	23.0
Manatee	24.0
Wombat	15.0

**Submit Order**

Product number:

Quantity:

Date required:

To see the inventory count for this product, click the **Check Inventory** button.

Select a date... - Microsoft L...

October 2003

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

# HATS Global Rules and Valid Value Lists

The screenshot shows a Microsoft Internet Explorer browser window displaying the 'JK Enterprises' website. The address bar shows 'http://localhost:9080/oct21/entry'. The website has a header with the 'JK Enterprises' logo and a navigation menu on the left. The main content area features a search form titled 'Search Request' with various input fields and a date picker. The date picker is open, showing the month of January 1979, with the 22nd highlighted. A dropdown menu is also open, showing a list of countries including United States, Japan, Germany, Australia, United Kingdom, Canada, Italy, and France.

**JK Enterprises Links**

- Home Page
- Map
- Employees
- Enterprises
- Articles

**Products**

- Main Product
- Additional Products
- Downloads
- Support

**Search Request**

To request a search, type the search data and press E

**Corporate and Personal Directories**

Name . . . . .

Birthdate . . . . . 01/22/1979

Node . . . . .

User ID . . . . .

Extension . . . . .

Job Responsibilities . . . . .

Location . . . . .

\*any field (Name Value) . . . . .

\*any field (Name Value) . . . . .

Enter command:

[Help](#) | [Set 2](#) | [Exit](#) | [Profile](#) | [Refresh](#) | [Fuzzy](#) | [Forward](#) | [Command](#) | [Actions](#) | [Dist list](#) | [Cancel](#)



# HATS Integration with WebSphere Portal

HATS V5 automatically generates portlets for use with WebSphere Portal

- HATS provides an open, flexible environment for creation of host portlets

HATS supports:

- Click-to-Action
- Cooperative Portlets
- Credential Vault
- Single Sign-On

HATS is ideal for use with portals because screens can be customized to reduce the amount of data displayed

The screenshot displays the IBM WebSphere Portal interface. The main content area features a 'Powered Boat Inventory' table with columns for 'Type and Model', 'Year', and 'US\$'. Below the table are buttons for 'Reset', 'Default', 'Refresh', 'Disconnect', and 'Turn Keyboard Off'. To the right, a 'Reminder' section shows the date 'Saturday, October 25, 2003' and tasks like 'Shop for a boat' and 'Call customer'. Below that is a 'My List' section with a note 'You currently have no tasks.' and a 'HATS Boats' section containing a 'Size Distribution' bar chart. The chart shows 'Boat Length' on the X-axis and 'Y-axis' on the Y-axis, with bars representing different length categories. At the bottom, there is a 'Bookmarks' section with links to IBM.com and various enterprise solutions, and a 'World Clock' section showing local and quick search times.

Type and Model	Year	US\$
P Mako Sportfisher	1989	13,000
P Carver Santa Cruz	1978	23,900
P Monk Flybridge/Sedan	1985	55,000
P Monk Bridge/Deck Cruiser	1986	18,800
P Monterey Marine Custom	1996	2,975,000
P Kalemeran	1995	100,000,000

## HATS Single Sign-On Support

- HATS supports single sign-on, which allows users to securely logon to multiple host systems while presenting credentials only once
- Increased Productivity
  - Credentials requested only once
  - No need to administer and maintain multiple logon identities
  - Reduced password-related support calls
- Secure
  - Works in conjunction with existing network security applications, such as Tivoli Access Manager
  - Retrieves network security credentials and maps to host credentials
- Extensible to support customized environments

# Automated Migration of Host Publisher V4 Projects

**Import Host Publisher EAR File**

This wizard will guide you to import a Host Publisher EAR file into a new or existing HATS project.

EAR file name:

Where do you want to import the resources in the EAR file to?

**Cr**eate new HATS project

Project name:

Use default location

Location:

Use default Enterprise Application project

Enterprise Application project name:

**I**mport to existing HATS project

Project name:

Options

Overwrite resources without warnings

User list encryption key:

# HATS Enhanced Administration

**Host Connections**

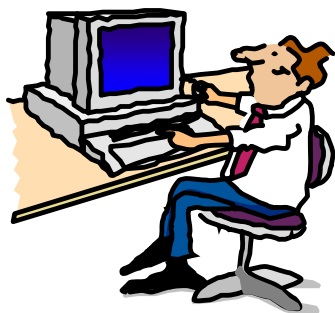
The table below shows all the active host connections. Please click on the connection identifier to view detailed information about the connection. You can select one or more connections to disconnect. You can also toggle the display for one or more connections. [i](#)

Scope: Application= oct21.ear, Application Server= server1, Node= localhost, Cell= localhost

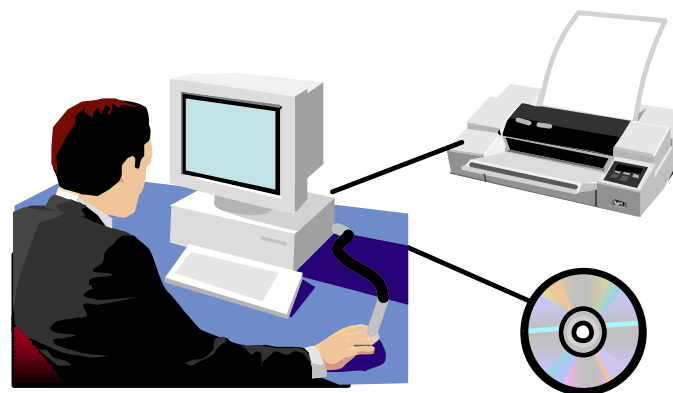
Total : 8

<input type="checkbox"/>	<a href="#">Connection Identifier</a>	<a href="#">Connection Definition Name</a>	<a href="#">IP Address</a>	<a href="#">TN Server: Port</a>	<a href="#">Session Identifier</a>	<a href="#">Application Name</a>	<a href="#">Communications Status</a>	<a href="#">Display Terminal</a>
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#10</a>	oct21/ral	9.27.63.38	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#10	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#11</a>	oct21/ral	9.27.48.50	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#11	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#4</a>	oct21/ral	127.0.0.1	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#4	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#5</a>	oct21/ral	9.27.63.78	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#5	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#6</a>	oct21/ral	9.42.85.154	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#6	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#7</a>	oct21/ral	9.27.63.124	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#7	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#8</a>	oct21/ral	9.42.85.156	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#8	oct21.ear	Ready	Off
<input type="checkbox"/>	<a href="#">HodConn:localhost:localhost:server1:oct21.ear#9</a>	oct21/ral	9.42.101.20	ralvms:23	HodConn:localhost:localhost:server1:oct21.ear#9	oct21.ear	Ready	Off

# Additional Features



- Native Keyboard Support



- Local Print Support:
  - f* Legacy Print Converted to PDF



- Security
  - HTTPs, SSL, Native Host Security

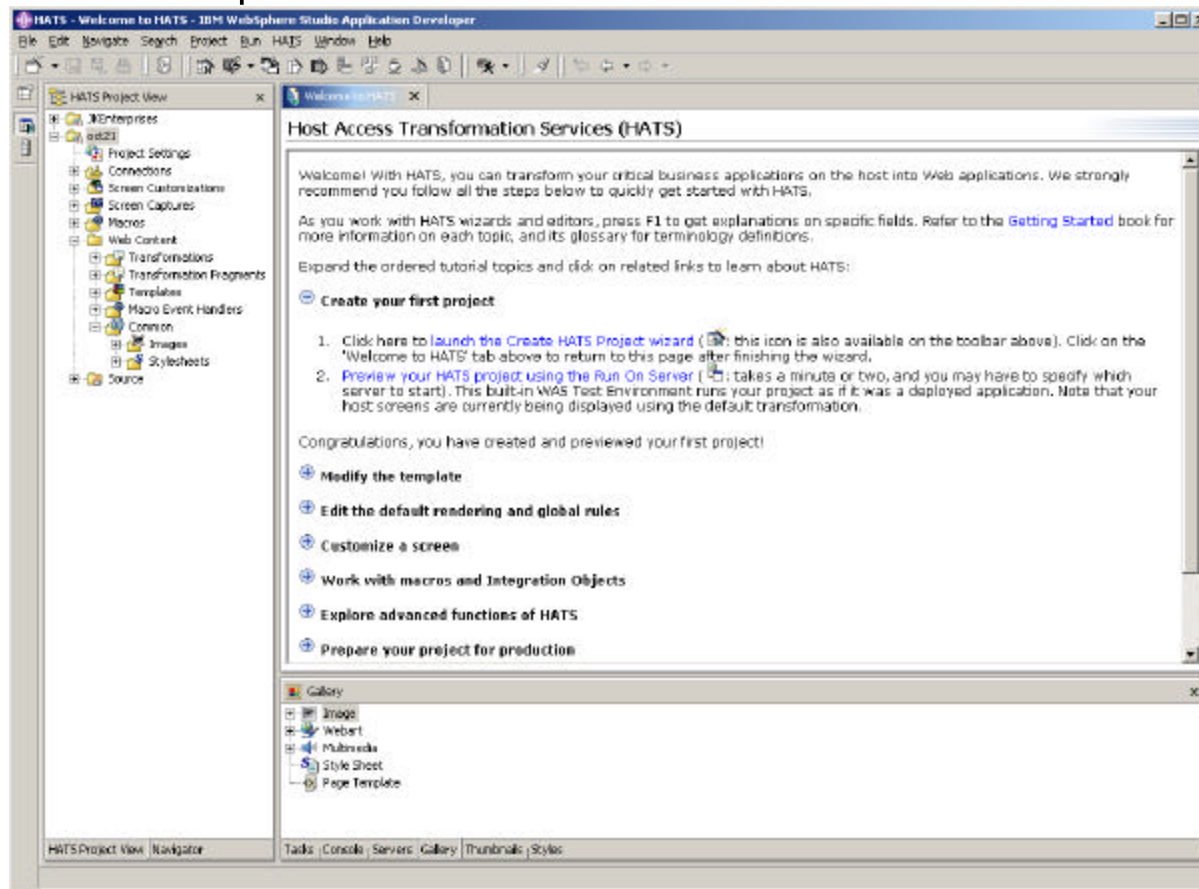


- 100% Accessible



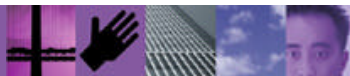
# Integration with Eclipse-based WebSphere Studio

- Industry-standard development environment
- Common framework and reusable skill set
- Exploits advanced application development features found in WebSphere Studio, such as team development facilities



## Deployment to WebSphere Application Server

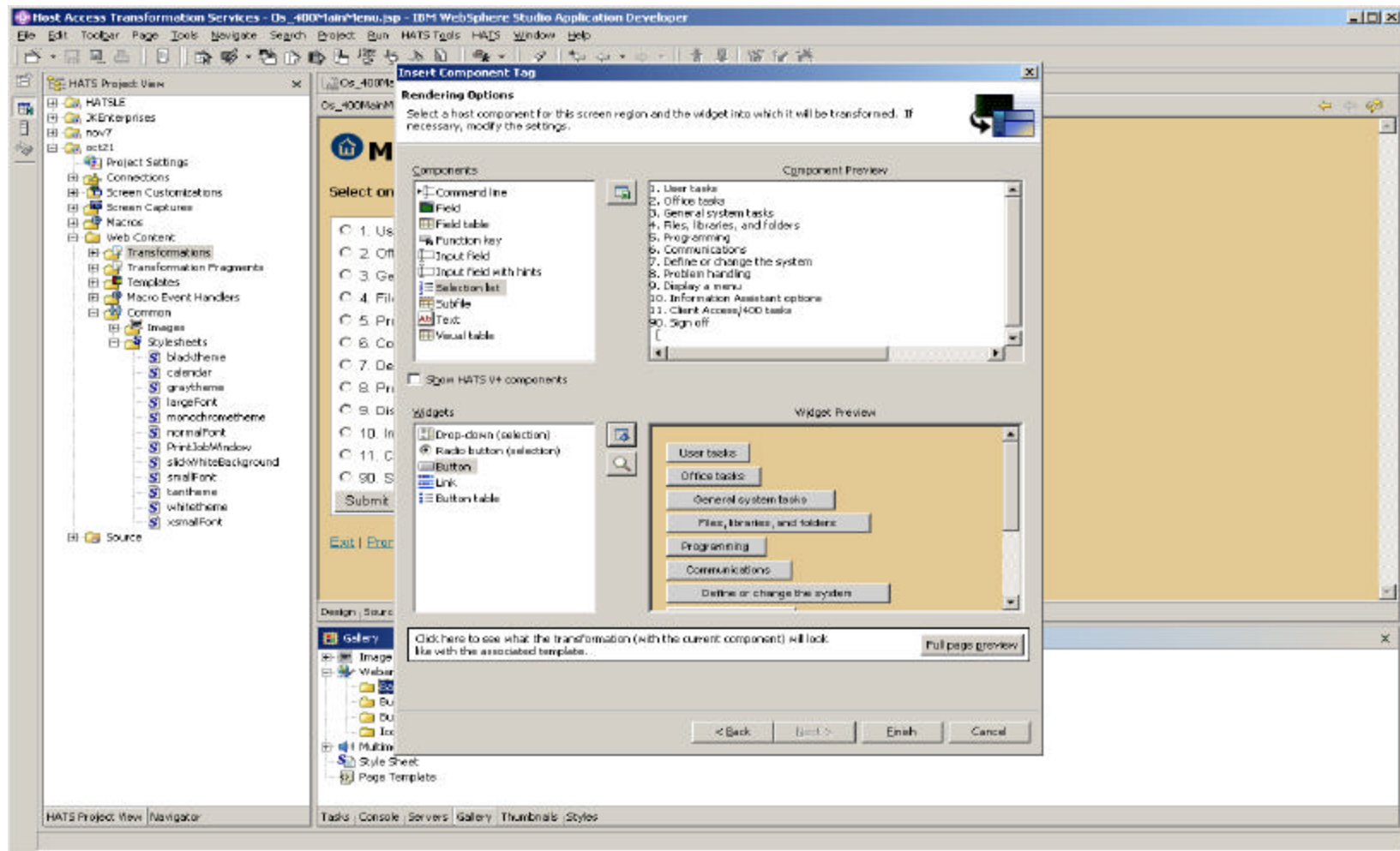
- 4 steps to make a completed HATS project ready for end users to access as a Web application -
  - **Assemble:** Build the project in WebSphere Studio, using the HATS Studio plug-in
  - **Transfer:** Move the file to the WebSphere Application Server or WebSphere Portal
  - **Install:** Deploy the file to the WebSphere Application Server or WebSphere Portal
  - **URL for End Users:** Provide users with the URL to the application
  
- HATS Exploits the Enterprise Class Performance Features of the WebSphere Application Server
  - f** Security - Secure HTTP (HTTPS), Secure Sockets Layer (SSL)
    - HATS appears to host system as a standard user so host security, such as RACF, is enabled
  - f** Availability - Load balancing and failover support
    - Features include vertical and horizontal cloning





# Supported Server Platforms

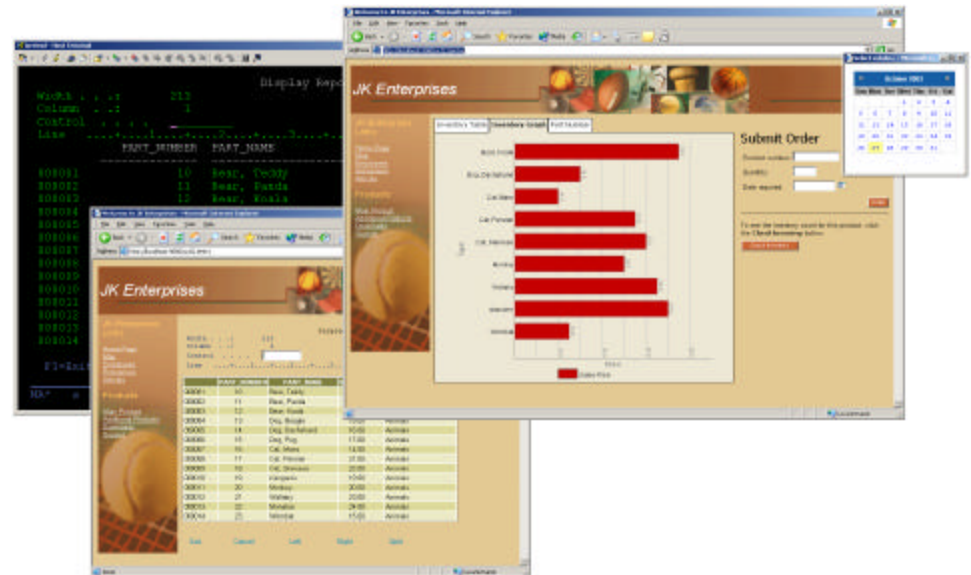
- Linux, Linux for zSeries, AIX, OS/400, Windows NT, Windows 2003, Windows 2000, Solaris, z/OS, OS/390



# Summary

- Host screens are converted to GUIs on the fly, in real time
- Improved navigation of host application
- Zero footprint on the desktop
- Low skills requirement
- Combine screens and data from multiple applications
- Eliminates need to customize every screen
- Generate Web services from host transactions
- Exploits security & scalability of WebSphere Application Server and WebSphere Portal
- Extensible through WebSphere Studio
- For more information visit:

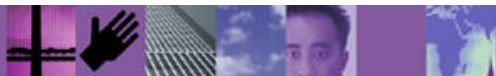
[ibm.com/software/webservers/hats](http://ibm.com/software/webservers/hats)



# HATS Education

[www.ibm.com/software/webserver/hats/education.html](http://www.ibm.com/software/webserver/hats/education.html)

- **SW912 - Introduction to Building Web-to-Host Solutions using IBM WebSphere HATS V5** - 2 days - Gain a working knowledge of IBM WebSphere Host Access Transformation Services (HATS) V5. Learn how to use HATS Studio to develop applications that allow your organization to protect its investment in host applications by transforming them into Web applications. During extensive hands-on lab exercises, see how the wizards in HATS Studio can help in the development of Web applications.
- **SW913 - Advanced Web-to-Host Application Integration using IBM WebSphere HATS V5** - 3 days - In this course, students will gain an in-depth understanding of how to transform existing 3270/5250 host applications using IBM WebSphere Host Access Transformation Services (HATS). Through a combination of lecture, demonstration and hands-on lab exercises, participants will learn how to use HATS Studio to develop applications that exploit the advanced features and capabilities of HATS to allow organizations to protect their investment in host applications by transforming them into Web-based applications. The advanced features that will be covered include macros, global variables, Integration Objects, Model 1 and 2 JSP pages to drive the Integration Objects and Web services support using HATS applications
- **Host Access Transformation Services (HATS) V5 Development Lab** - The objective of this lab is to provide you with an understanding on the basics of creating and previewing a Host Access Transformation Services (HATS) application. This will be done through the use of the WebSphere Development Studio Client for iSeries with the HATS plug-in and the integrated WebSphere Application Server Test environment. At the end of the course, you should be able to: create a Host Access Transformation Services Application, preview your HATS project in the WebSphere Application Server test environment, modify the default template, modify the default rendering, customize a screen, and create a macro.
- **Creating Portlets with IBM Host Access Transformation Services Version 5 (HATS V5) LAB** - This lab provides a step-by-step opportunity for the reader to understand the basics of deploying and configuring portlets using IBM Host Access Transformation Services Version 5 (HATS V5). In this lab, a page in WebSphere Portal that contains an IBM WebSphere HATS portlet was created. Using HATS V5, HATS portlets are compatible with the Portal Toolkit in WebSphere Studio, so custom portlets can be created for a HATS application. If the steps in this example were followed, a page similar to the image below should have been created. The HATS application used in this lab is a default transformation of the 5250 green screen with no enhancements or customization.



# IBM Enterprise Transformation Resources

- IBM Enterprise Transformation Website
  - [http://w3-103.ibm.com/software/xl/portal/.cmd/cs/.ce/155/.s/828/\\_s.155/828/\\_s.155/828?BRAND=websphere&CATEGORY=enterprisemodernization](http://w3-103.ibm.com/software/xl/portal/.cmd/cs/.ce/155/.s/828/_s.155/828/_s.155/828?BRAND=websphere&CATEGORY=enterprisemodernization)
- IBM Enterprise Transformation Demo
  - <http://websphere.dfw.ibm.com/etdemo/index.html>
- IBM WebSphere Host Integration Demo
  - <http://websphere.dfw.ibm.com/whidemo/>
- IBM WebSphere Host Integration Solution Website
  - <http://www-306.ibm.com/software/webservers/hostintegration/>
- IBM WebSphere Host Integration – Customer Comments
  - [http://www-306.ibm.com/software/webservers/hi\\_customers/](http://www-306.ibm.com/software/webservers/hi_customers/)
- IBM WebSphere Host Integration – Business Partners
  - [http://www-306.ibm.com/software/webservers/hi\\_partners/](http://www-306.ibm.com/software/webservers/hi_partners/)
- IBM WebSphere Host Integration – Case Studies
  - [http://www-306.ibm.com/software/webservers/hi\\_casestudies/](http://www-306.ibm.com/software/webservers/hi_casestudies/)
- IBM WebSphere Host Integration Solution – Library, Brochures, Presentations, Redbooks
  - <http://www-4.ibm.com/software/webservers/hostintegration/library.html>

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\* iSeries

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