



IBM Software Group

IBM WebSphere Host Integration eGovernment Webinar

WebSphere. software

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 **e-business software**

WebSphere Enterprise Modernization

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WebSphere Host Integration eGovernment Solution Objectives

- **Provide cost effective Internet access to government information**
 - Produce web results quickly
 - Leverage existing application assets and staff skills
 - Reach a wide variety of end users, e.g. mobile employees, telecommuters, vendors and citizens
 - Expand hours of availability
 - Enable self-service transactions
- **Help reduce costs**
 - Reduce host access software deployment and maintenance costs
 - Lower training costs
 - Shorten transactions times
 - Replace employee driven transactions with self-service
- **Build reusable eGovernment components and web development skills**

WebSphere Host Integration Solution

Technologies designed to:

- **Replace existing, traditional Host Access software**
- **Extend the reach of existing host applications without change to the legacy applications or data**
- **Make green screen applications look and act like a web page**
- **Integrate information from multiple back end applications and databases into web applications**
- **Deliver legacy applications and data to Portals**
- **Get existing applications to the web quickly, practically, affordably, with little or no coding**
- **Build skills and software components that are reusable in web applications**



IBM Software Group

Application Rejuvenation

Modernize Appearance, Streamline Navigation

WebSphere. software



 e-business software

WebSphere Enterprise Modernization

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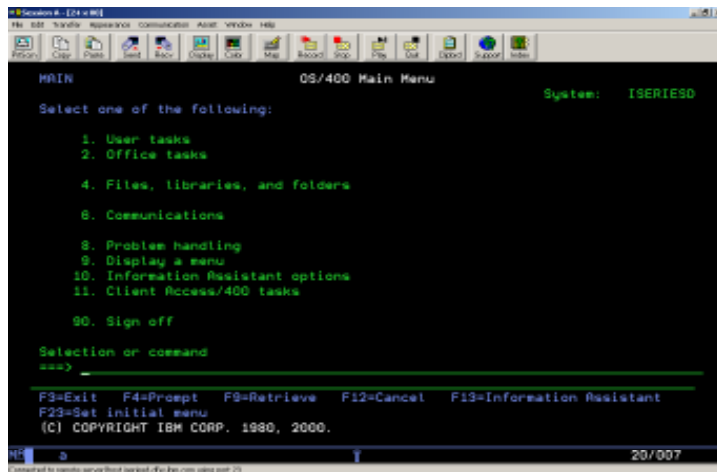
Host Access Transformation Server

HATS is:

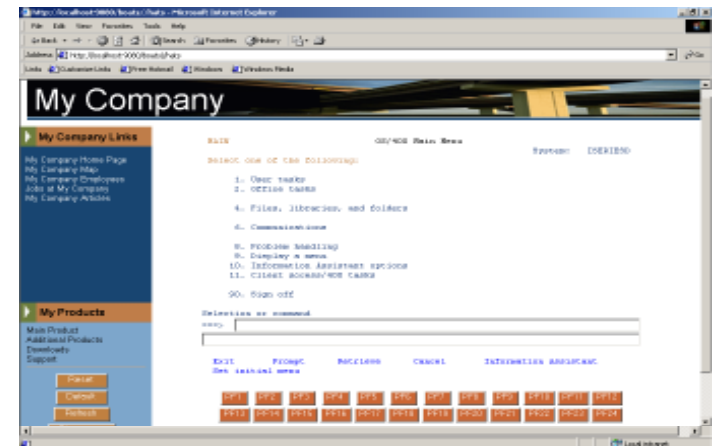
- A Web-to-host HTML “emulator”...
- with a rules-based transformation engine that...
- converts green screens to graphical user interfaces in real time, and...
- significantly improves the navigation, productivity and web access of host applications.

Host Access Transformation Server (HATS)

- A Web-to-host HTML emulator...
 - Zero-footprint, zero-download
 - Only software needed on the client is a Web browser
 - Non-invasive, no need to access/ modify source code



Web Browser



WebSphere Application Server

3270,
5250



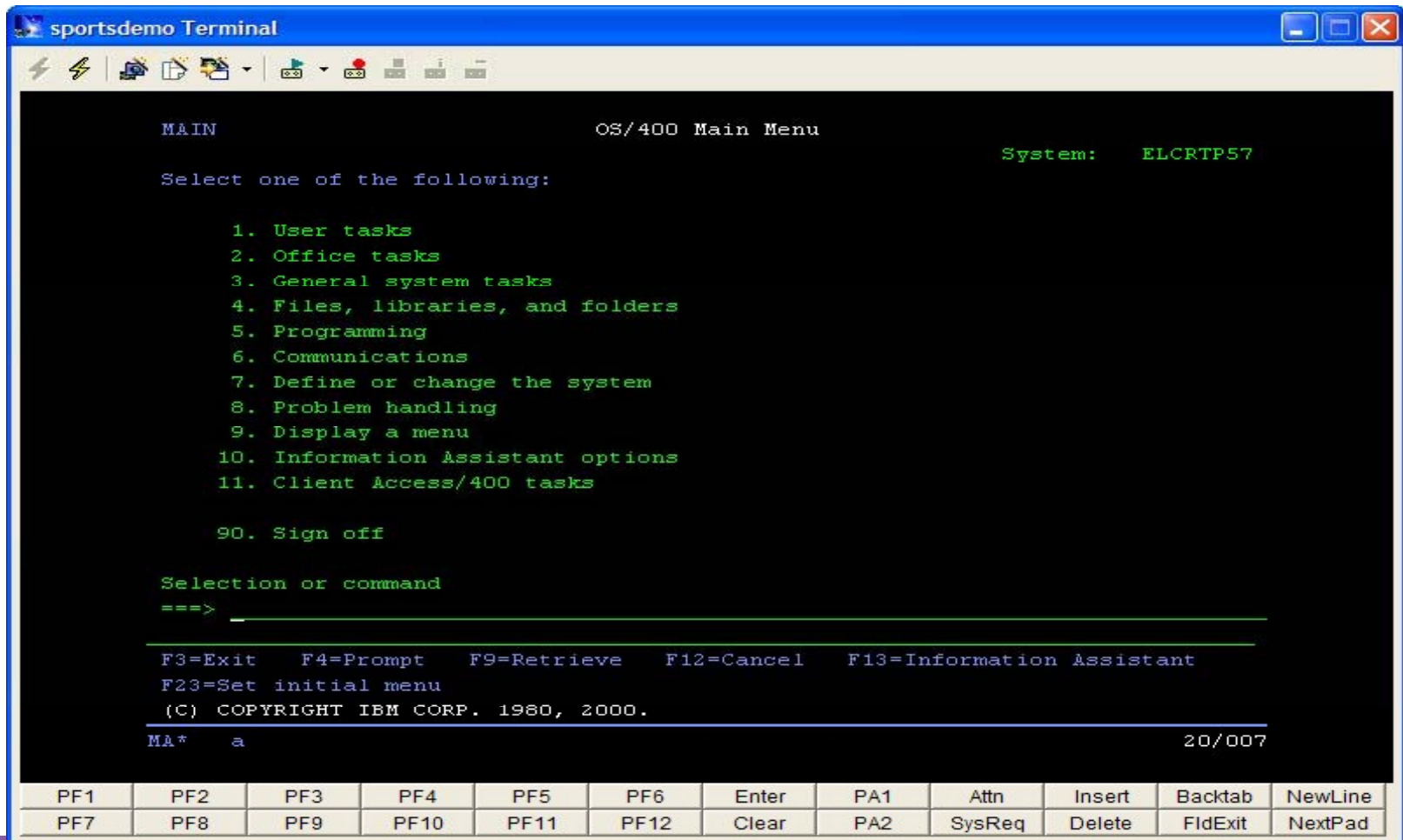
Host Access Transformation Server (HATS)

- A Web-to-host HTML emulator...
- **with a rules-based screen transformation engine...**
 - "On-the-fly" screen conversion using the rules-based transformation engine
 - Default rules allow you to web-enable an entire host applications quickly
 - "Load and Go"
- **No need to customize every screen**
- **Maintains existing application flow, flexibility**
- **Add further customization at your own pace**
- **Wizard driven; Less requirement for programming skills**

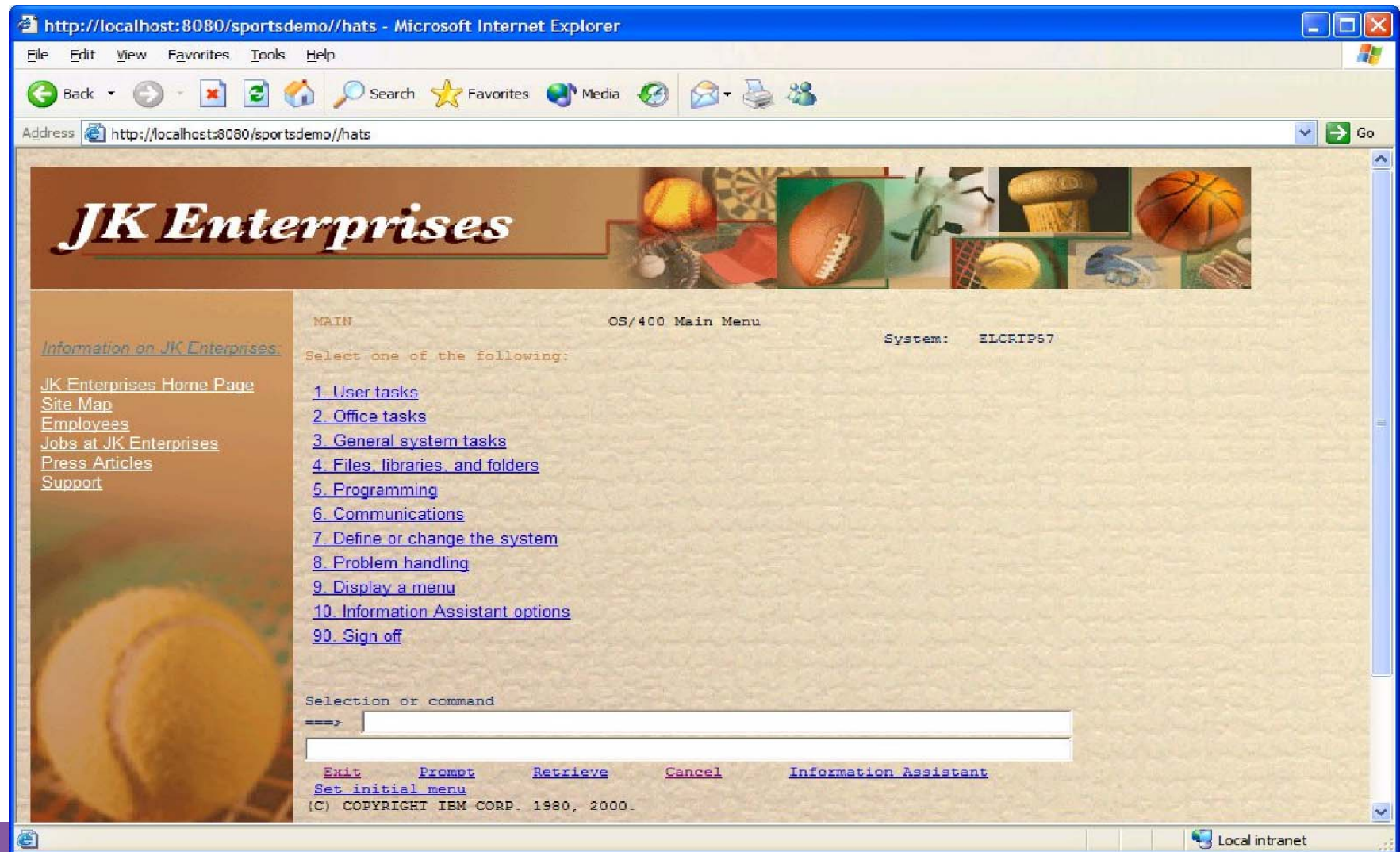
Host Access Transformation Server (Hats)

- **Converts green screens to HTML GUI's...**
 - Rejuvenates and modernizes appearance
 - Applications are easier to learn and use
 - Can eliminate keystrokes and workflow steps
 - Customized access to selected data and functions
- **Utilizes the capabilities of the WebSphere Studio AD tools**
 - HATS studio is a WebSphere Studio "plug in"
 - Customize HTML
 - Add new business logic
 - Use WebSphere Studio wizards
- **Produces "instant" Portal content from legacy applications**

Traditional Green Screen



Transformation Using Default Rules



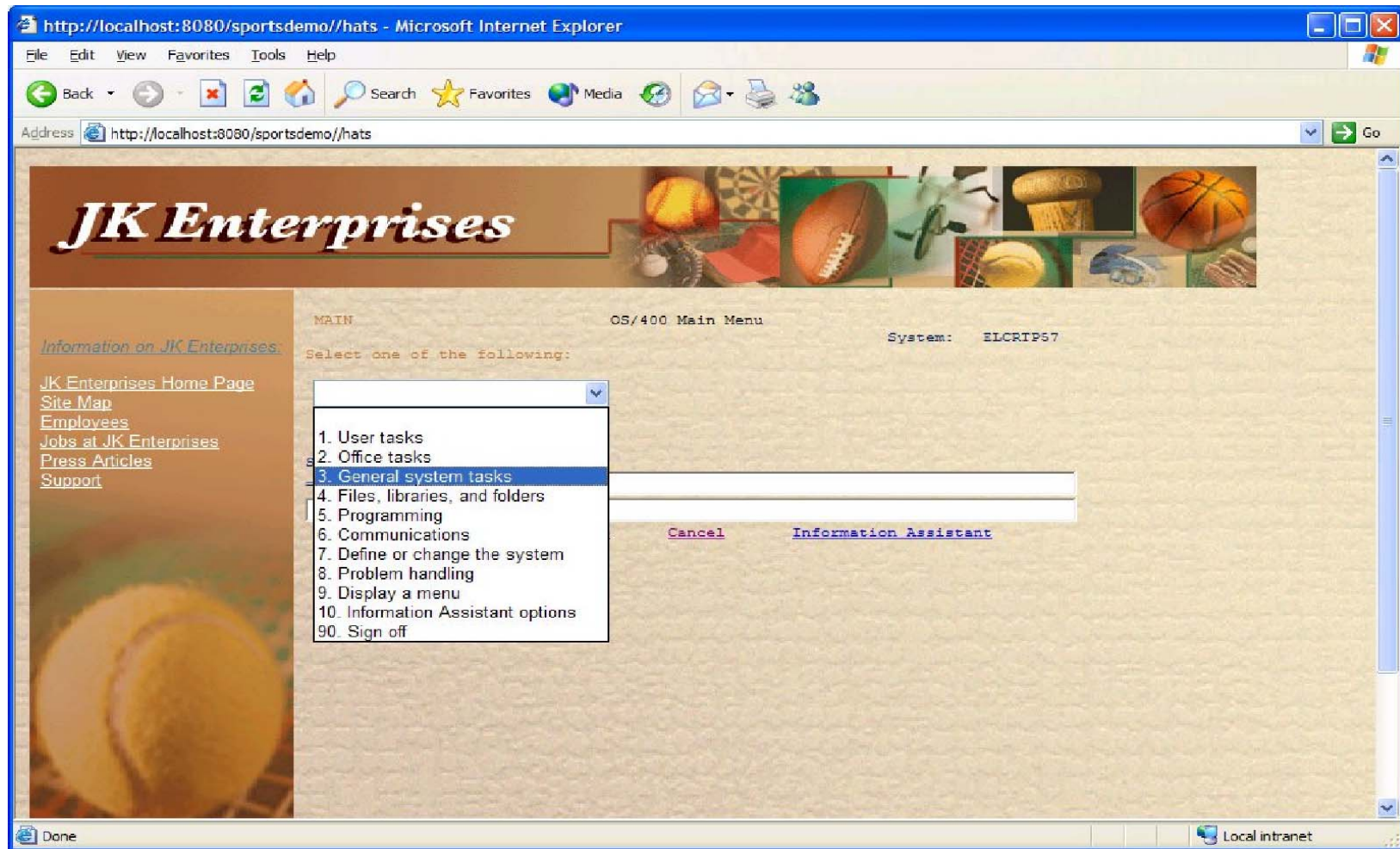
Defining a Rule - How to Display a Selection List

The image illustrates the process of defining a rule to display a selection list in IBM WebSphere software. It features three main windows and three preview examples:

- Insert Host Component:** A window with a "Screen Region" tab and a "Rendering Option" tab. The "Rendering Option" tab is active, showing a "Component List" with "Selection list" highlighted. Below it, the "Widget List" shows "Buttons", "Links", "Option list", and "Dropdown list" with "Dropdown list" selected. A "Widget Preview" window shows a list of tasks: "1. User tasks", "2. Office tasks", "3. General system tasks", "4. Files, libraries, and folders", "5. Programming", "6. Communications", and "7. Define or change the system".
- Preview (Buttons):** A window showing a list of tasks with buttons next to each item: "1. User tasks", "2. Office tasks", "3. General system tasks", "4. Files, libraries, and folders", "5. Programming", "6. Communications", and "7. Define or change the system".
- Preview (Links):** A window showing a list of tasks with links next to each item: "1. User tasks", "2. Office tasks", "3. General system tasks", "4. Files, libraries, and folders", "5. Programming", "6. Communications", and "7. Define or change the system".
- Preview (Option list):** A window showing a list of tasks with radio buttons next to each item: "1. User tasks", "2. Office tasks", "3. General system tasks", "4. Files, libraries, and folders", "5. Programming", "6. Communications", and "7. Define or change the system".

Red arrows indicate the flow from the "Selection list" in the "Component List" to the "Widget Preview" and then to the three preview windows.

Transformation with Drop Down List



State of Oregon Corrections

```

DEVL400
File Edit View Communication Actions Window Help

CMS203I                      Corrections Information Systems          11:28:07
CORNMANJ                     Work with Offenders Summary      4/23/03

Caseload number . . . 1011  PRIMMER, DALE
                               Position to . . .
Enter option...
  2=Change   4=Remove from caseload   5=Display   6=Print chrono   7=DNA req.
  8=History  9=UA log   12=Condition tracking  13=Treatment programs

Opt Offender Name          SID#   Expir Date  Cls  Reass Due  Status  P/S  DNA
---
ANDREWS-SPRING, KATHY JEA  7645642  5/06/2003  MED  12/05/2002  PR      P
BAILEY, DAVID LYNN        7054168  6/06/2005  HI   12/17/2002  PO      P
BEALS, DARIN WAYNE        70270496  8/10/2002  LTD  11/03/2002  PR      P
BLEA, EMELIO JOSEPH       13758031  8/02/2003  HI   10/01/2002  PO      P
CHAMBERLAIN, DAVID RAY    5926257  9/05/2002  HI   9/20/2002  PR      P
COOLEY, CHARLES CASS      12542174  10/02/2003  HI   1/24/2003  PO      P
DIVELBLISS, DAVID WAYNE   8980877  5/01/2005  LTD  10/16/2002  PR      P
DYGERT, DONAVAN DWAYNE    6893878  2/27/2005  MED  11/22/2002  PO      P
FOSTER, DAVID RUSSELL-ROB  8252127  12/19/2002  HI   9/20/2002  PR      P
FREDRICKSON, DARYL SCOTT  12016732  2/14/2003  MED  8/27/2002  PO      P
GALLAGHER, THOMAS WILLIAM 11285155  5/29/2003  HI   2/18/2003  PO      P
More...

F3=Exit   F4=Prompt   F5=Refresh   F6=Add offender   F10=Print   F11=Menu bar
F12=Cancel F13=Repeat   F17=Subset   F19=Summary      F23=More options

MA a
05/059
Connected to remote server/host DEVL400 using port 23
CDCDEVLEX on IP_172.30.178.87
11:28 AM


```

CIS_Demo - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print View Source

Address http://devl400:82/CIS_Demo/entry Go



CORRECTIONS INFORMATION SYSTEM



Oregon.gov Links Email News View Inmate

CMS203I Corrections Information Systems 11:25:46
 CORNMANJ Work with Offenders Summary 4/23/03

Caseload number . . . 1011 PRIMMER, DALE
 Position to . . .

Enter option...
 2=Change 4=Remove from caseload 5=Display 6=Print chrono 7=DNA req.
 8=History 9=UA log 12=Condition tracking 13=Treatment programs

Opt	Offender Name	SID#	Expir Date	Cls	Reass Due	Status	P/S	DNA
	ANDREWS-SPRING, KATHY JEA	7645642	5/06/2003	MED	12/05/2002	PR		P
	BAILEY, DAVID LYNN	7054168	6/06/2005	HI	12/17/2002	PO		P
	BEALS, DARIN WAYNE	70270496	8/10/2002	LTD	11/03/2002	PR		P
	BLEA, EMELIO JOSEPH	13758031	8/02/2003	HI	10/01/2002	PO		P
	CHAMBERLAIN, DAVID RAY	5926257	9/05/2002	HI	9/20/2002	PR		P
	COOLEY, CHARLES CASS	12542174	10/02/2003	HI	1/24/2003	PO		P
	DIVELBLISS, DAVID WAYNE	8980877	5/01/2005	LTD	10/16/2002	PR		P
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	FOSTER, DAVID RUSSELL-ROB	8252127	12/19/2002	HI	9/20/2002	PR		P
	FREDRICKSON, DARYL SCOTT	12016732	2/14/2003	MED	8/27/2002	PO		P
	GALLAGHER, THOMAS WILLIAM	11285155	5/29/2003	HI	2/18/2003	PO		P

Start | Windows Task Man... | Host Access Transf... | CIS_Demo - Micr... | Sample Screen Sho... | CIS_Demo Terminal | Local intranet | 11:26 AM



Improves Navigation & Productivity of Host Applications

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



Customized Transformation



HATS Integration with WebSphere Portal

- HATS provides a portlet for use with WebSphere Portal
- HATS screens can be customized to reduce the amount of data displayed
- Host portlets can be integrated with portlets from other sources

The screenshot shows the IBM WebSphere Portal interface in Microsoft Internet Explorer. The browser address bar shows the URL: http://asuka.raleigh.ibm.com/wps/myportal/.cmd/ad/.ar/1264273660/.c/501/.ce/1308/.p/1303?PC_1303_hats_CLIPPING_URL=-875413131#1308. The portal header includes navigation links like 'Work with Pages', 'Portal Administration', and 'Host Integration Development'. The main content area features two side-by-side portlets for 'JK Enterprises'.

Product Catalog

Product Number	Product Name	Price US\$
24	Bird, Cockatoo	19.00
25	Bird, Macaw	18.00
26	Chinchilla	19.00
27	Ferret	20.00
28	Hamster	17.00
29	Rabbit	23.00
30	Alligator	21.00
31	Crocodile	22.00
32	Dinosaur	20.00
33	Frog	12.00
34	Bobcat	18.00
35	Mountain Lion	19.00
36	Jaguar	17.00
37	Wolf	18.00

Inventory Display

Product Number	Product Name	Inventory
24	Bird, Cockatoo	30
25	Bird, Macaw	36
26	Chinchilla	50
27	Ferret	58
28	Hamster	27
29	Rabbit	20
30	Alligator	31
31	Crocodile	33
32	Dinosaur	19
33	Frog	46
34	Bobcat	44
35	Mountain Lion	32
36	Jaguar	38
37	Wolf	21

Below the product tables, there are sections for 'Cool sites', 'Online portals news', and 'Web developer news'. A 'World Clock' portlet shows the local time as 9:13 AM Eastern Time (US & Canada) on 3/10/03. The portal also includes a 'Reminder' section at the bottom.

Use HATS to build pre-defined transactions...

- **Pre-define a path through an application(s)**
- **User interface is HTML, HATS acts on behalf of the end user**
- **Extends the reach of mission critical applications into self-service, 24 X 7 web transactions**
- **User-paced transactions, viewable, printable information**
- **Integration of multiple sources of host data presented to web users via a browser: 3270, 5250, VT, Java, JDBC**
- **The ultimate in rejuvenation**
- **Builds reusable Java beans**
- **Enables legacy transactions as Web Services-enabled Java beans**
- **Capabilities inherited from the WebSphere Host Publisher product**



Hawai'i State Judiciary

Hawai'i State Judiciary's Public Access to Court Information

Search Option #1 - Enter the full case ID below.

Case ID

Search

Search Option #2 - Search on a person or business' name.

Last or Business Name

First Name

Search

Search Option #3 - Choose from the selections below and enter the case number as indicated. (Suffix is optional)

Circuit

Case Type

Year

Century

Case Number

Suffix

Oahu

Civil

2000's

01

Search

Civil

Circuit Court Criminal

District Court Regular Civil Claim

District Court Small Civil Claim

District Court Temporary Restraining Order

Equity

Family Court Appeal

Family Court Criminal

Divorce

Family Court Domestic Abuse

Family Court Miscellaneous

Guardianship

Land (after 1997)

LAW - initiated prior to statehood w/ activity after 1984

Mechanic's and Materialman's Lien

Probate

Small Estate (before 1995)

Small Guardianship (before 1995)

Special Proceedings

Special Prisoner Proceedings

Print

Help

Exit

Porter County Tax Application Original Data Page

```

Date: 11/05/99      Time: 12:09:21
Dup No. 02 000251303 SHINGLER RAY C & SUSAN L/H&W      RIDGEWOOD CREEK
Parcel                                     UNIT 1 LOT 16
Stat A Cls 510   Mtg 3504 CHIMNEY HILL CT                DR467 P61 VLACD DITCH
By/SI 4/16/96   355 VALPARAISO      IN46383
Drain 30   Consv 2 Bk/Pg 000 000 Inst #      Tx Sale N BANKRUPT
Property Address --> NO ADDRESS FOUND      Pre.Dupl. 278560
                                           New.Dupl. 0

```

	Land-Res	Impr-Res	Land N-R	Impr.N-R	Exempt	Net Value	C.of E.#
96	3430	20230	0	0	3000	20660	0
97	0	0	3430	20230	0	23660	0
98	0	0	3430	20230	0	23660	0
99	0	0	3430	20230	0	23660	0

```

Mtg Y N N N Hmstd Y N N N Age N N N N DisVet N N N N Solar N N N N
Rehab N N N N Wl1 N N N N Blnd/dsabl N N N N Tx Exmpt N N N N

```

	Tax Due	Tax Paid	Date	Penalty	Pen.Paid	Date	Date Appld
96 A	793.42	793.42	5/12/97	.00	.00	0/00/00	6/03 0/00
Y B	793.42	793.42	11/10/97	.00	.00	0/00/00	11/13 0/00
97 A	965.59	965.59	5/11/98	.00	.00	0/00/00	5/12 0/00
Y B	965.59	965.59	11/10/98	.00	.00	0/00/00	11/18 0/00
98 A	909.92	909.92	5/10/99	.00	.00	0/00/00	5/24 0/00
Y B	909.92	.00	0/00/00	.00	.00	0/00/00	0/00 0/00

```

F14-C0 F16-D1 F20-SW
ENTER DUP NO F5-NAME F7-ADDR F9-NOTES F10-PADDR F11-BK/PG F12-RTN

```

Select Type of Search to perform

Search by Name:

Search by Name

Search by Address:

Search by Street Name



Search by Dup. Number:

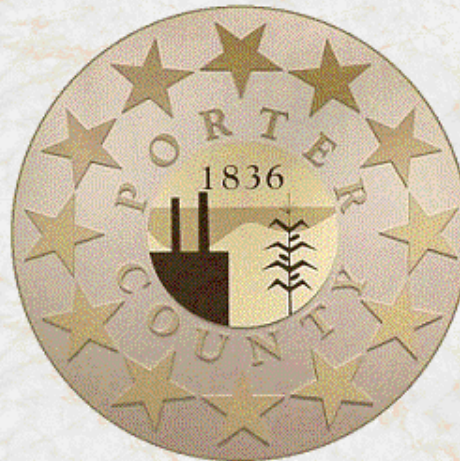
Search by Dup. No.

Search by Property Address:

Search by Street Name

Signoff

Alphabetic Search Page



TAX SELECT

Dup. No.	Last Name	First Name	No.	Dir.	Street	Book	Page
01000575800	WILSON	ALFRED M & DOLO	2306		VINE	000	000
25000036200	WILSON	ALICE	306		IROQUOIS TR	000	000
08000654905	WILSON	ALPHA B	2748		DOMBEY	000	000
08000654906	WILSON	ALPHA BEARD &	2748		DOMBEY	000	000
10000214540	WILSON	BARBARA J	1249		MORNINGSIDE	561	579
10000214541	WILSON	BARBARA J	1249		MORNINGSIDE	000	000
08000654921	WILSON	BRADLEY BLAKE	5462		CENTRAL	702	415
08000656248	WILSON	BRIAN & PEGGY	2347		PLYMOUTH	000	000
01000575852	WILSON	BRIAN D & PEGGY	1219		OHIO	000	000
01000575853	WILSON	BRIAN D & PEGGY	1219		OHIO	804	054
01000575855	WILSON	BRIAN M &	666		FOREST GLEN	000	000
10000214550	WILSON	BRUCE A & CINDY	109	E	WESTCHESTER	775	403
05000094200	WILSON	BYRON P & DARLE	987	N	400 E	000	000

Commonwealth of Virginia Courts System





Virginia Courts Automated Information System

Arlington Circuit

Select court division for search and then click "Continue".

Criminal
Law
Chancery

Continue

Logoff

Criminal

Criminal cases are controversies between the State and persons accused of a crime.

Law

Law cases are civil cases which involve disputes essentially private in nature between two or more parties. Law cases usually involve a monetary settlement. For example, contract disputes and suits resulting from automobile accidents are law cases.

Chancery

Chancery cases, like law cases, also are civil cases which involve disputes essentially private. Chancery cases usually involve questions of equity. For example, divorce and partition suits are chancery cases.

HATS Streamlines Application Navigation Recent Customer Example

- **“Green screen” application navigation**

- 24 screens
- 98 keystrokes

- **Navigation with HATS HTML interface**

- 10 HTML pages
- 41 keystrokes
- 58% fewer screens to traverse
- 58% fewer keystrokes

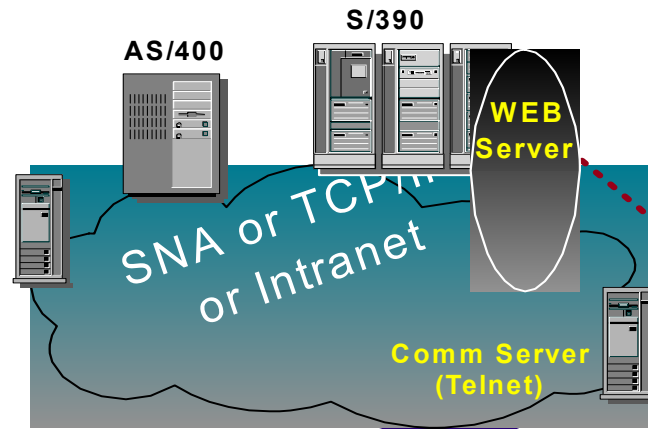
- **Transaction time savings**
- **Training savings**
- **Improved employee job satisfaction**

HATS Key Benefits

- **Quickly converts legacy applications to web appearance and browser access**
- **Modern application appearance improves usability and reduces training time**
- **Streamlined application flow can reduce transaction times**
- **Enables web-based, 24 X 7 self service transactions**
- **No cost of software deployment to end user**
- **Enables addition of business logic to legacy applications without changing the application**
- **WebSphere-based development and deployment environment provides unlimited flexibility**
- **Builds reusable skills**

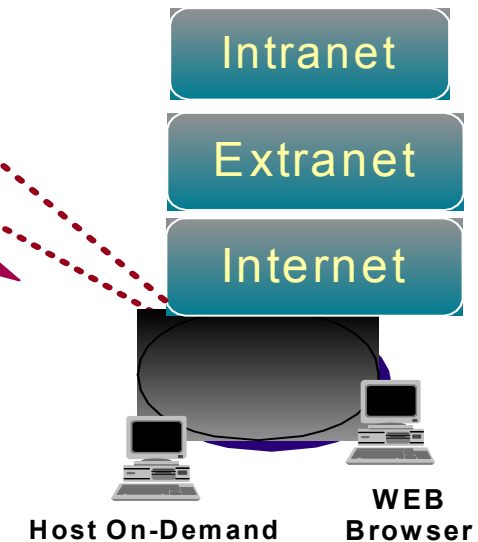


"Thin Client" Host Integration



Host Integration Java-Based Terminal Emulator

- **Server support:** OS/2, AIX, NT, S/390, AS/400, HP, SUN, Linux
- **Standardized, browser based access**
- **Client SW managed on the server**
- **Works with any Telnet server without requiring an intermediate server**
- **Secure Sockets Layer and Digital Certificates**
- **.pdf Print Support**
- **Host on Demand Portlet**





Browser-based terminal emulation

```
Wake County - A
File Edit Transfer Appearance Communication Assist Print Help
Jump Same Exit Transfer Copy Paste PrtScrn Remap Color Keypad Play Record Stop
07/14/1999 11:23:26 M U L T I T E R M / V S E v2.6.3 VIMM0500 RSLN1034
COUNTY MASTER MENU
-----
Tag Description of Selection Appl/Port Time Away
-----
1. ASSESSOR/INSPECTIONS.....(CICS1)
2. REVENUE/FIRE ** ROD HAS MOVED ** (CICS2)
3. CHILD/EMS/UCC.....(CICS3)
4. ROD is not Available from this Menu
-----
Menu==> PA1 , Toggle==> PA2 , Goto==> , Allow Watch==> YES
-----
Selection==> _ Data==> Command==>
ENTER==> Process, CLEAR==> Reset, PF3==> Previous Menu, PF4==> Next Menu
PF7==> Page Back, PF8==> Page Forward, PF9==> Active/Selection
MA a 22/015
```

Host on Demand Key Benefits

- **Lowers software deployment and maintenance costs**
- **Enables standardization**
- **Extends the reach of applications without rewriting**
 - New users, e.g. contractors, vendors, departments, agencies
 - Telecommuters and remote employees
 - Disaster recovery
- **Helps replace expensive private networks with the Internet**
- **Includes a comprehensive license for end user**
 - Licensed for office, home remote
 - Licensed for all Win OS's, e.g. XP, 2000
- **Enables secure Host access via the Internet**

WebSphere Host Integration enables you to:

- **Get applications to the web quickly**
 - With little or no programming
 - At lower cost, lower risk
 - Leveraging existing applications, data and skills
- **Reach new end users securely**
 - 24 X 7, browser access
 - Enable self-service applications
 - Provide legacy content to portals
- **Improve application appearance and streamline flow**
- **Reduce SW deployment and support costs**
- **Reduce communications costs**
- **Build reusable web skills and components**