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IBM WebSphere Host Integration eGovernment Webinar

WebSphere. software

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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



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Application Rejuvenation

Modernize Appearance, Streamline Navigation

WebSphere. software







Host Access Transformation Server

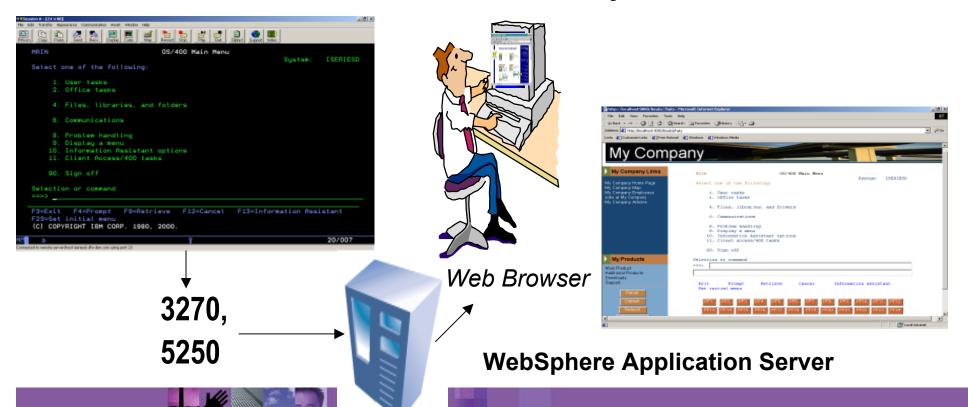
HATS is:

- -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





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

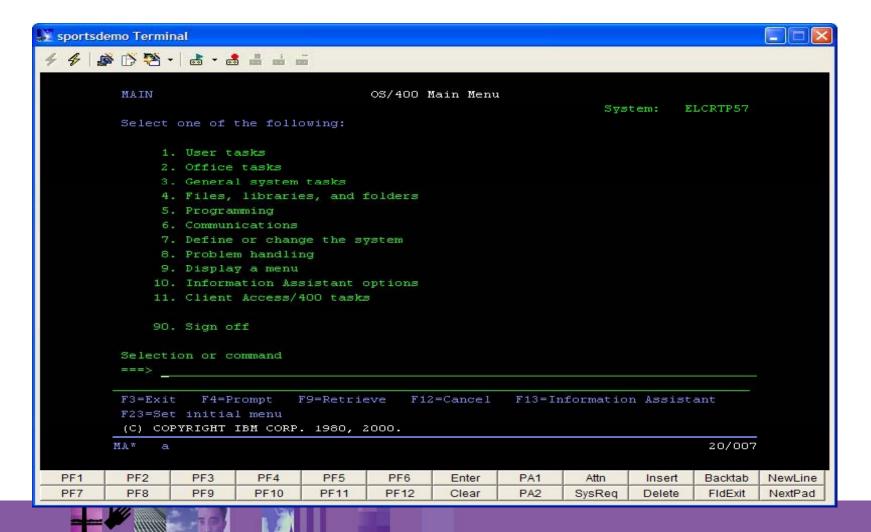


Host Access Transformation Server (Hats)

- 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



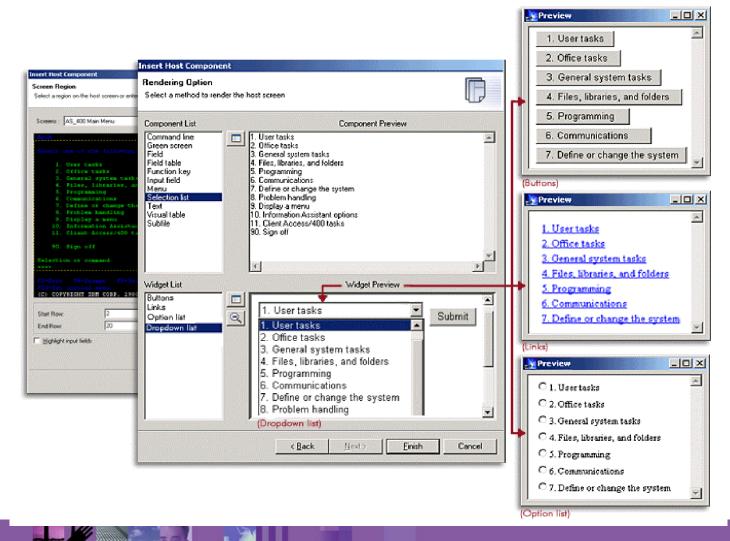


Transformation Using Default Rules



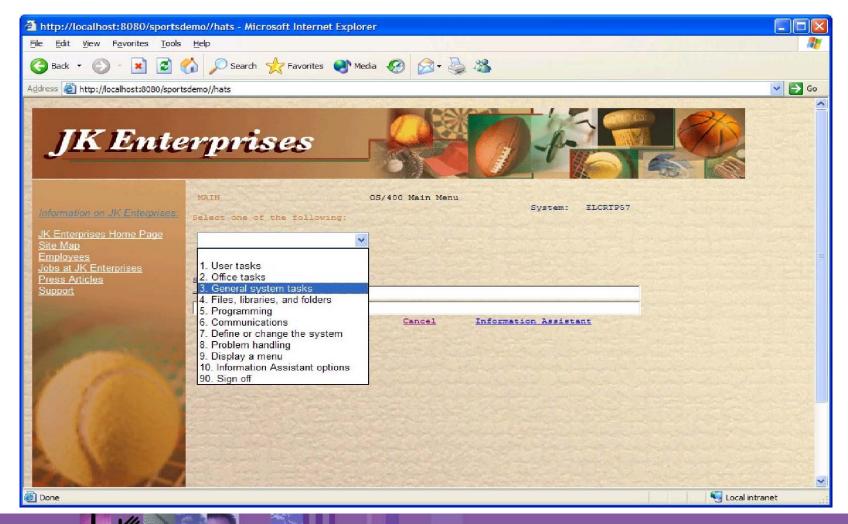


Defining a Rule - How to Display a Selection List



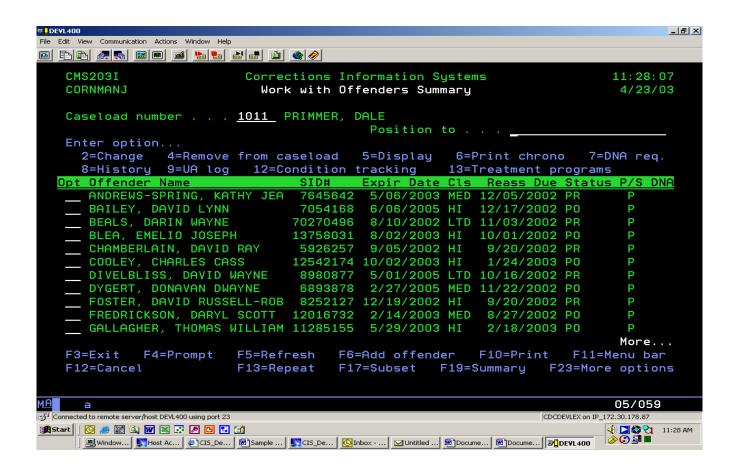


Transformation with Drop Down List

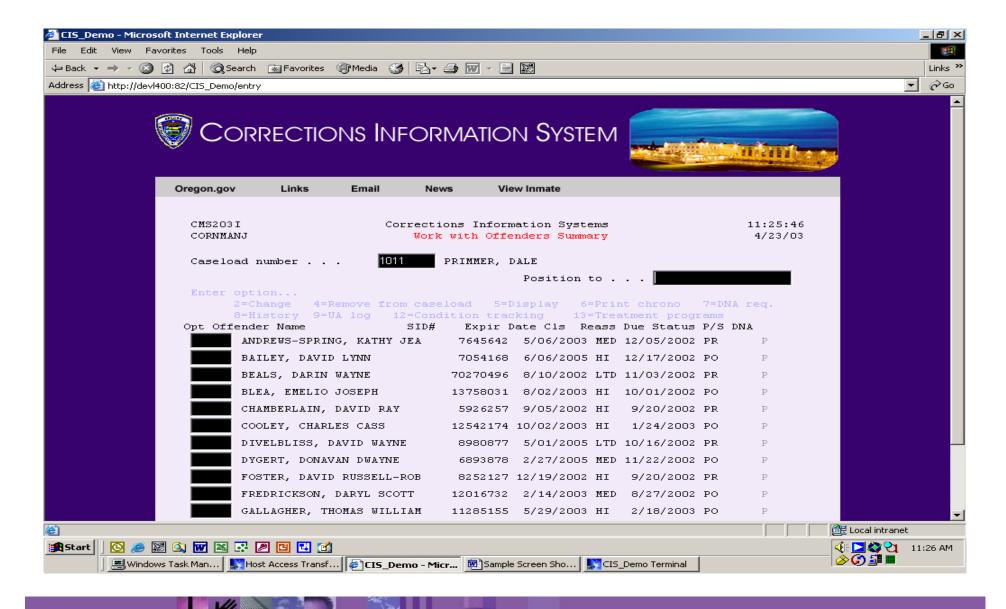




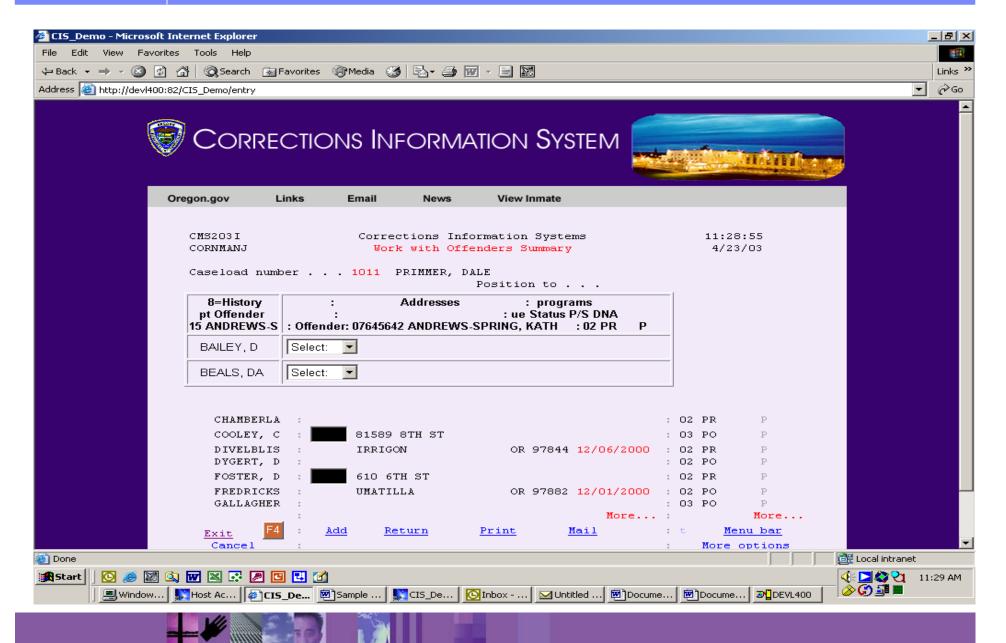
State of Oregon Corrections













Improves Navigation & Productivity of Host Applications

- Macros & global variables
 - ► Skip unneccesary 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





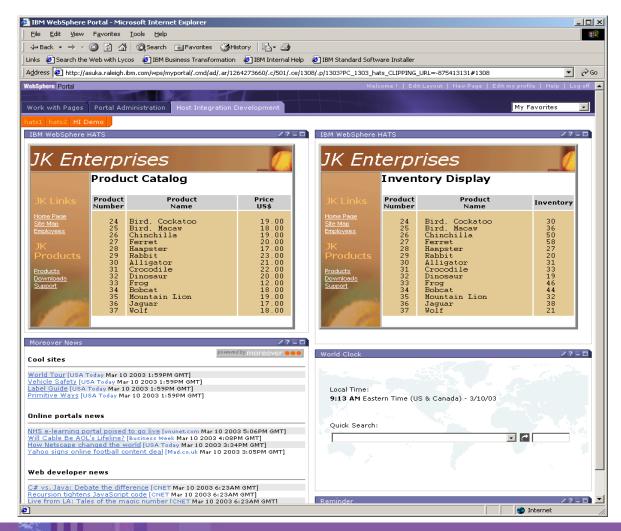
Customized Transformation





HATS Integration with WebSphere Portal

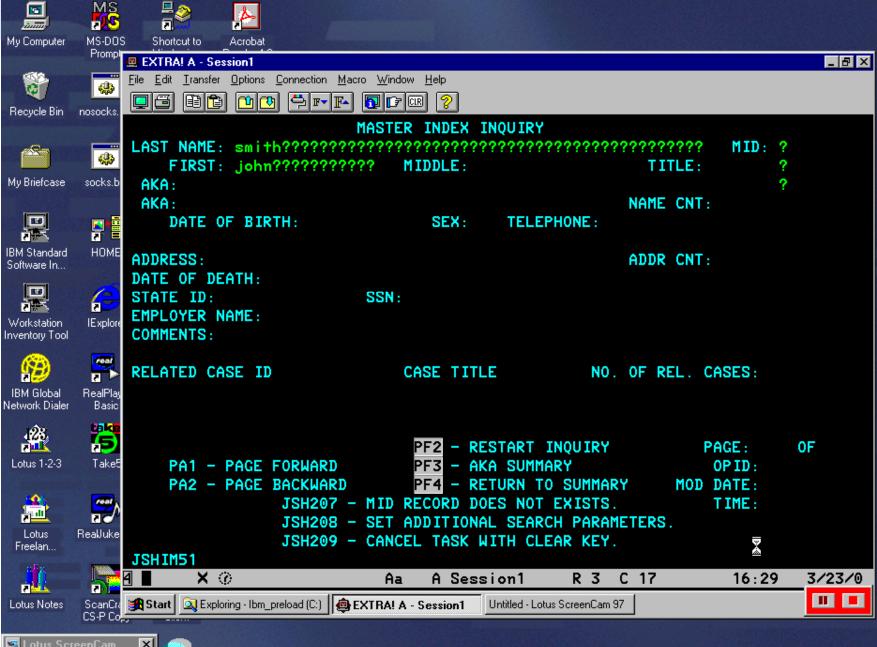
- HATS provides a portlet for use with WebSphere Portal
- HATS screens can be customized to reduce the amount of data displayed
- Host portlets can be integrated with portlets from other sources





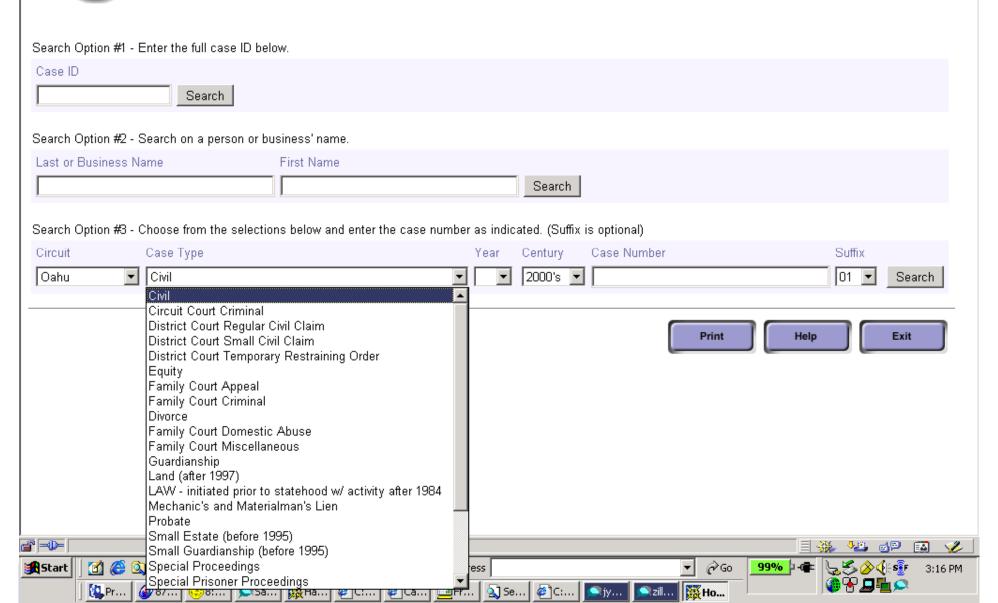
Use HATS to build pre-defined transactions...

- 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









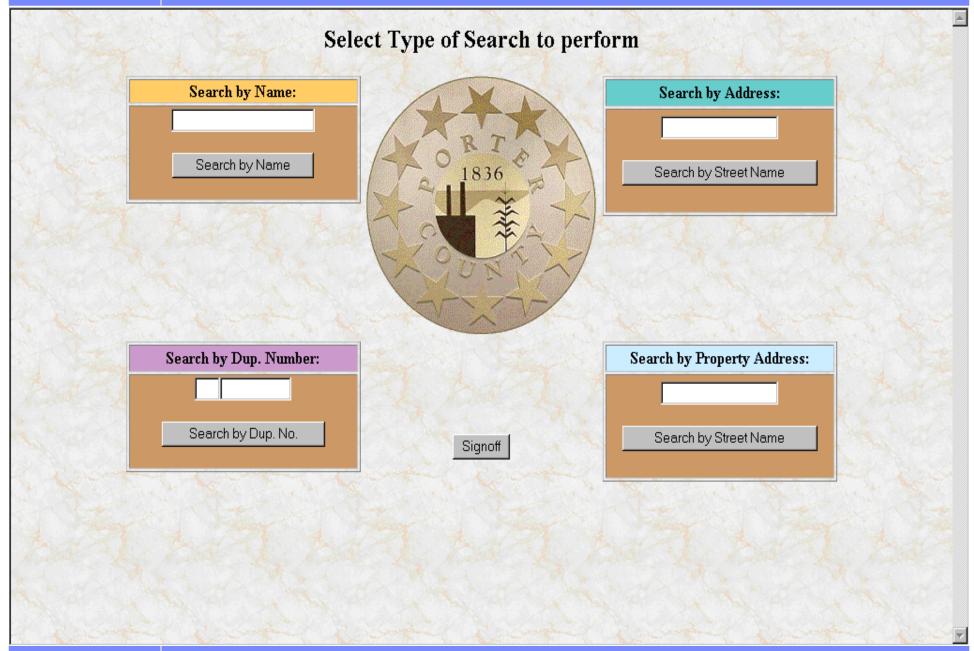
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Porter County Tax Application Original Data Page

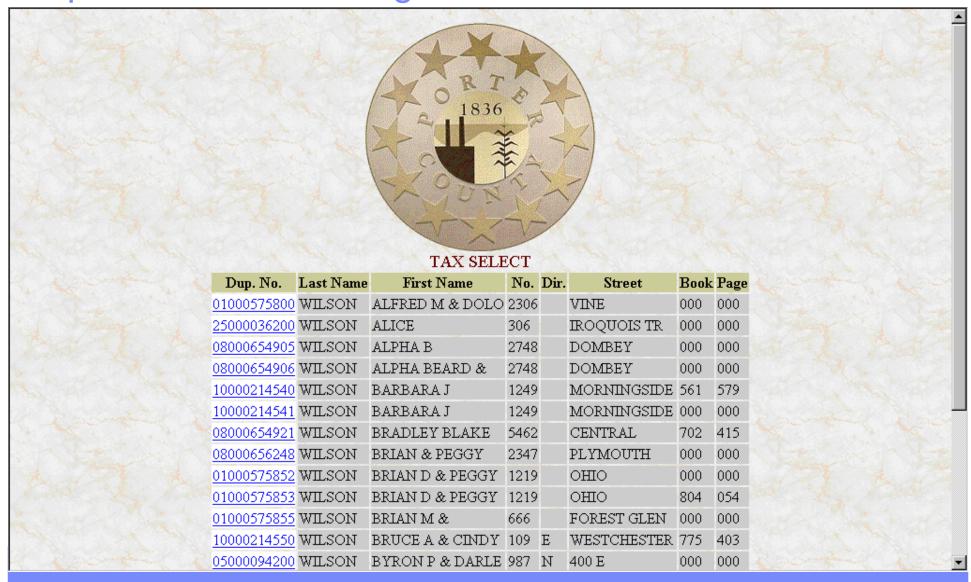
Parcel UNIT 1 LOT 16 Stat A Cls 510 Mtg 3604 CHIMNEY HILL CT DR467 P61 VLACD D By/Sl 4/16/96 355 VALPARAISO IN46383	
Drain 30 Consv 2 Bk/Pg 000 000 Inst # Tx Sale N BANKRUPT Property Address> NO ADDRESS FOUND Pre.Dupl. New Dupl	278560
New bapt.	_
Land-Res Impr-Res Land N-R Impr.N-R Exempt Net Value C.o	
96 3430 20230 0 0 3000 20660	0
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Reĥab NNNN WW1 NNN Blnd/dsabl NNN NTX Exmpt NNN N	
Tax Due Tax Paid Date Penalty Pen.Paid Date Date A	ppld
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
	20-SW
ENTER DUP NO F5-NAME F7-ADDR F9-NOTES F10-PADDR F11-BK/PG F12	





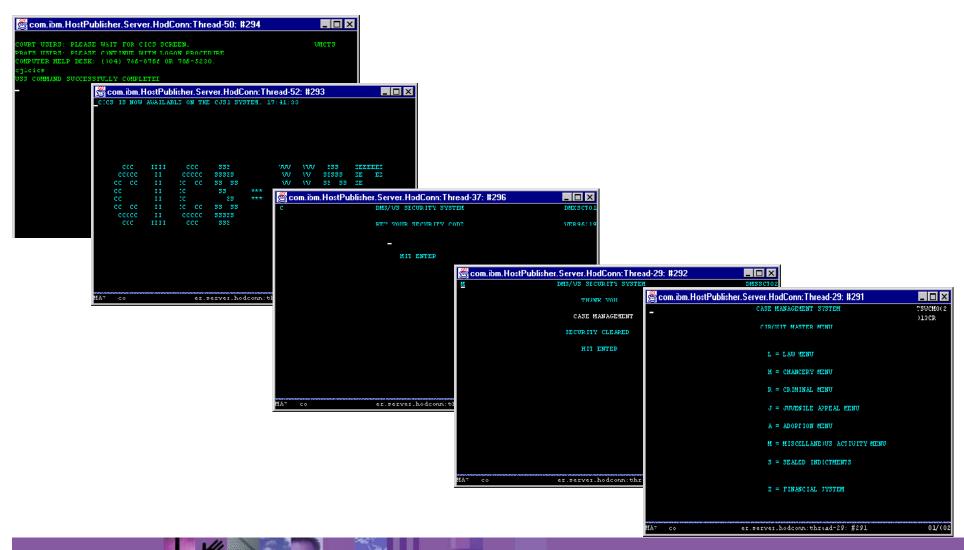


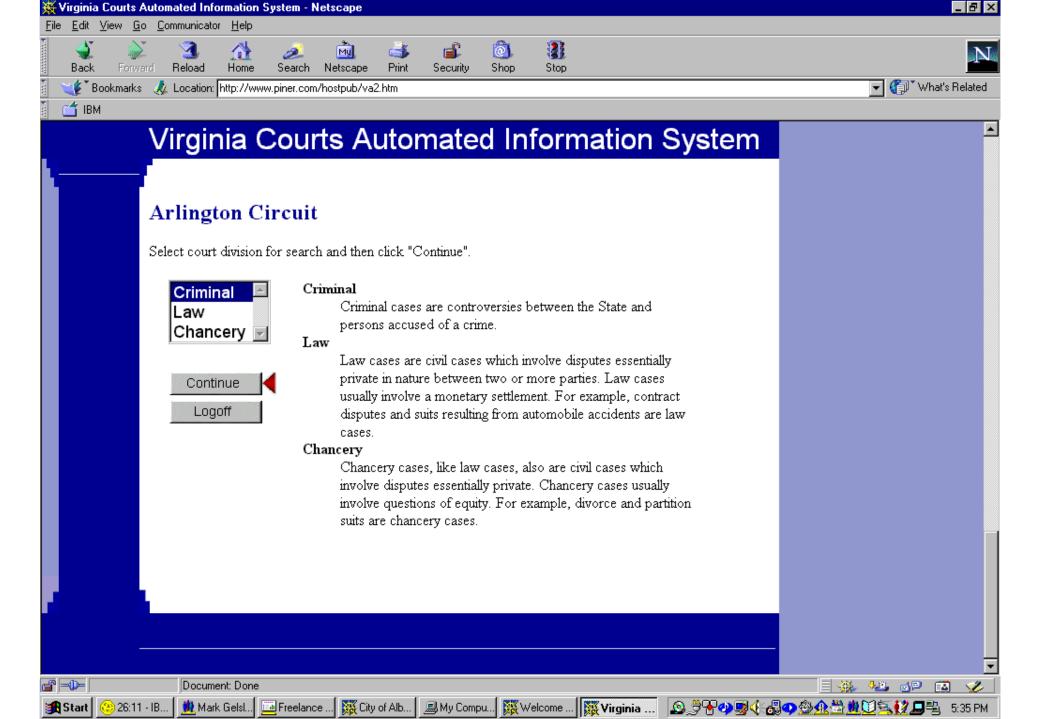
Alphabetic Search Page





Commonwealth of Virginia Courts System







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

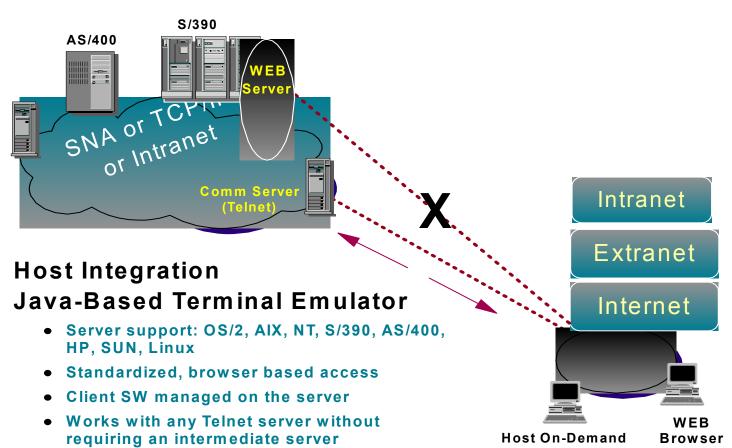
- Quickly converts legacy applications to web appearance and browser access
- Modern application appearance improves usability and reduces training time
- Streamlined application flow can reduce transaction times
- Enables web-based, 24 X 7 self service transactions
- No cost of software deployment to 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





.pdf Print Support

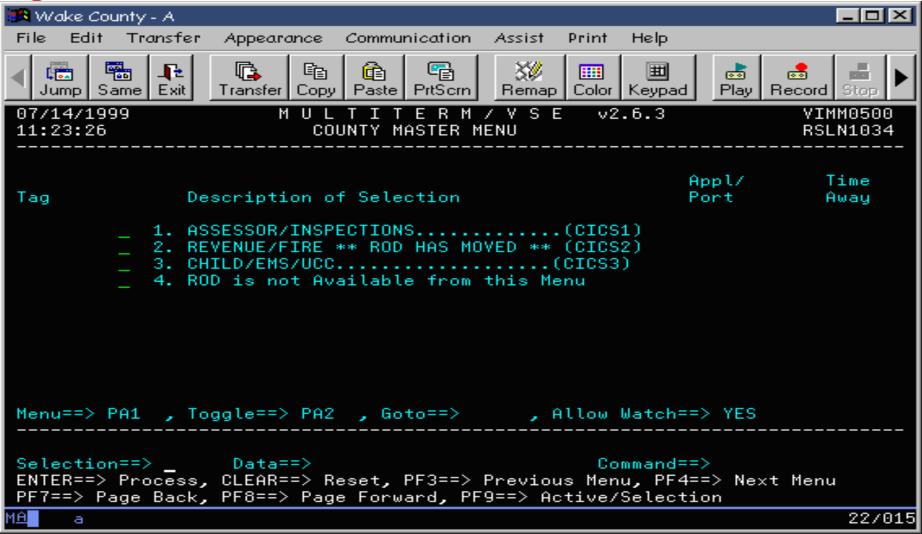
Host on Demand Portlet

• Secure Sockets Layer and Digital Certificates





Browser-based terminal emulation





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



New Hanover County, North Carolina

David Butts Technology Development Manager



NHC Web Applications

Since 1999, New Hanover County has published 5 applications, with a 6th currently in Beta

- 1. A 5250 Inspections Inquiry system for Builders & Contractors
- 2. A 3270 Real Estate Tax Record Inquiry for the Public & Realtors (with link to GIS maps)
- 3. A 3270 Health Inspection Inquiry for Public
- 4. A 5250 Street Index primarily for local government internal use
- A 5250 Inspection Request system for Builders & Contractors.
 (Enhanced System using the 5250 application and a MS SQL Server database is in Beta and features real time scheduling, online payment, and activity summary)

Results:

- Inspections Request and Tax Record Inquiry pages are the most heavily used
- Rave reviews from the Public, the Realtors, and the Builders
- Significant reduction in internal workload
- The Web-based GIS maps are seamlessly integrated with Host Publisher

Next Effort:

CICS Tax Application "Green Screens" on the Web using Host Access Transformation Server (HATS)
which will further reduce telephone inquiries

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Mew Hanover County Inspection Inquiry - Inspection Selection - Microsoft Internet Explorer





NEW HANOVER COUNTY INSPECTION DEPARTMENT

Inspection Inquiry - Inspection Selection

Year = 99 Application Number = 16333

New Inquiry

Exit Inquiry

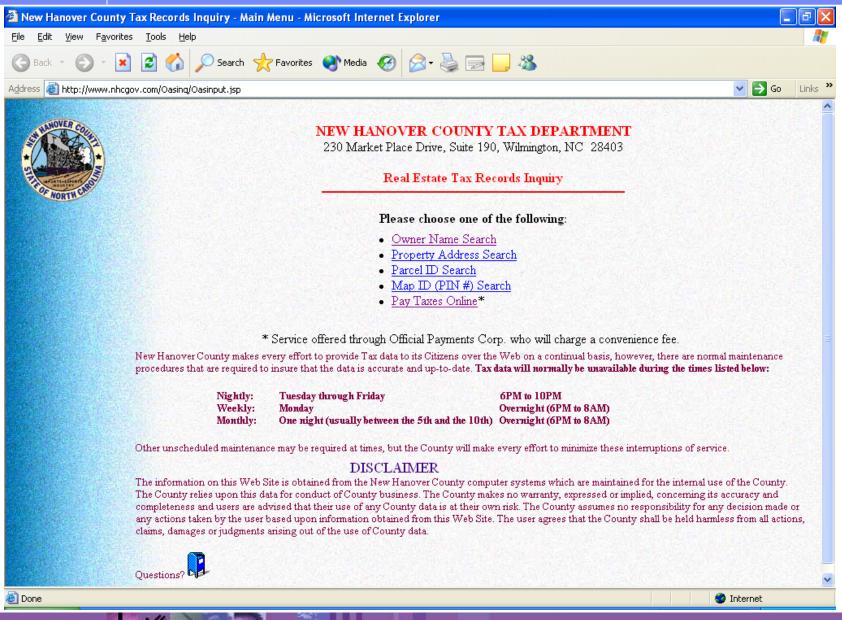
Print this Page*

(Click on red arrow for more detail)

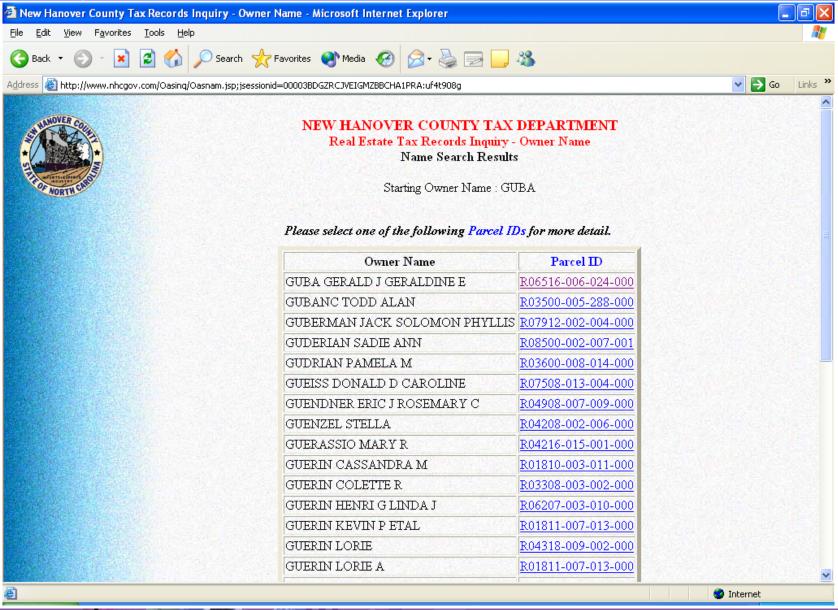
*Netscape and Internet Explorer 5.0+ only

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	000	000	BUFT	00	BLDG SLAB PREPARATION	0001	TCB	AP	1/10/00		
	000	000	BUFT	00	BLDG FRAMING ROUGH-IN	0001	WHH	AP	1/27/00		
	000	000	BUFT	00	BLDG INSULATION	0001	TCB	AP	2/04/00		
	000	000	BUFT	00	BLDG INSULATION	0002	TCB	DA	2/14/00		
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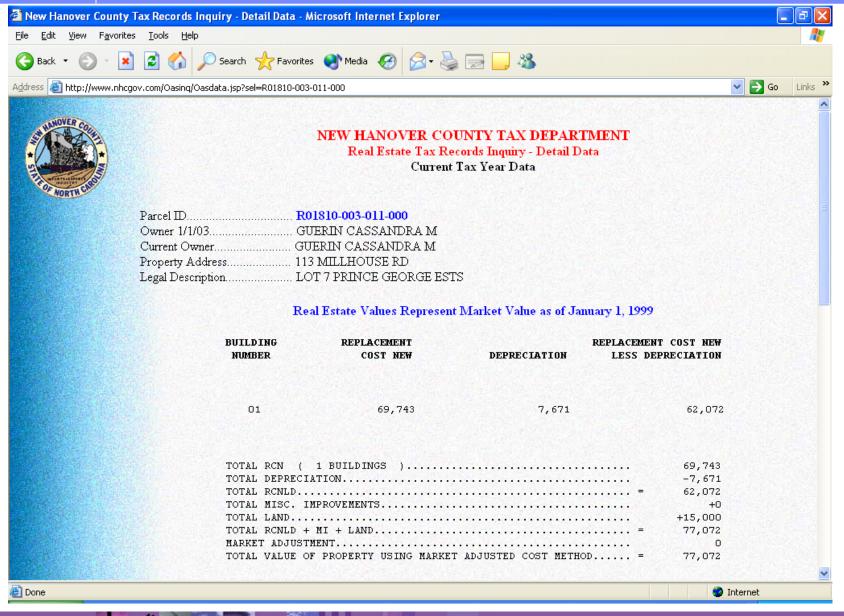




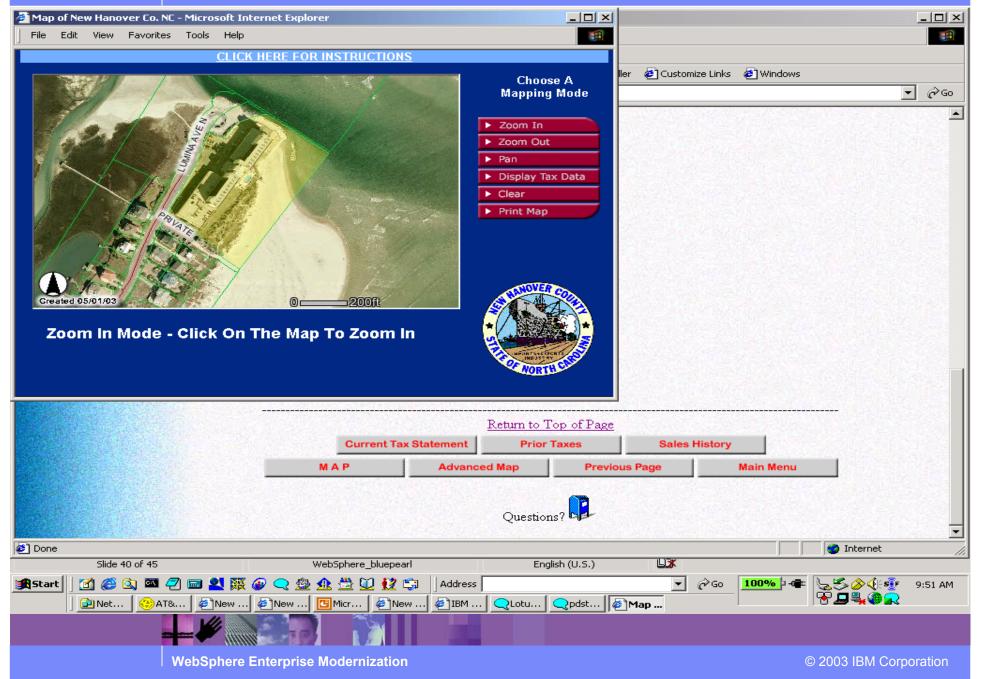




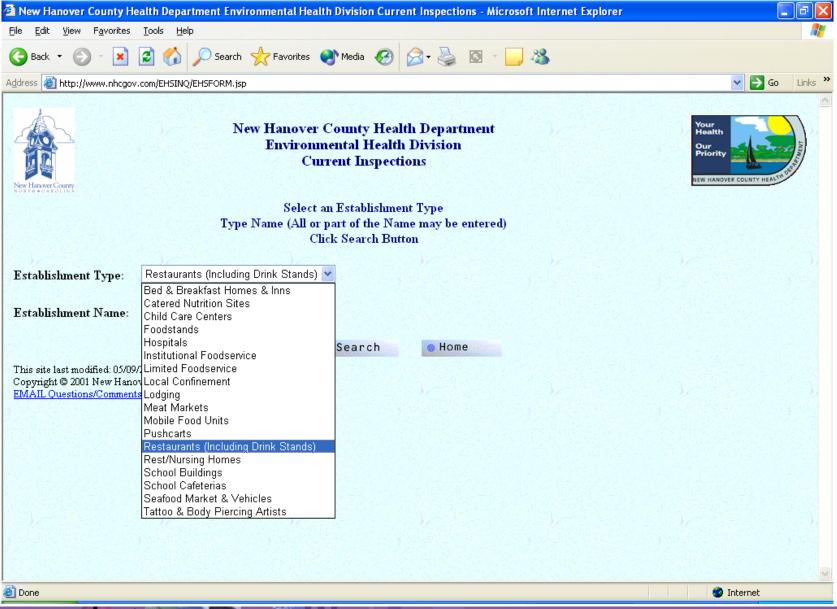




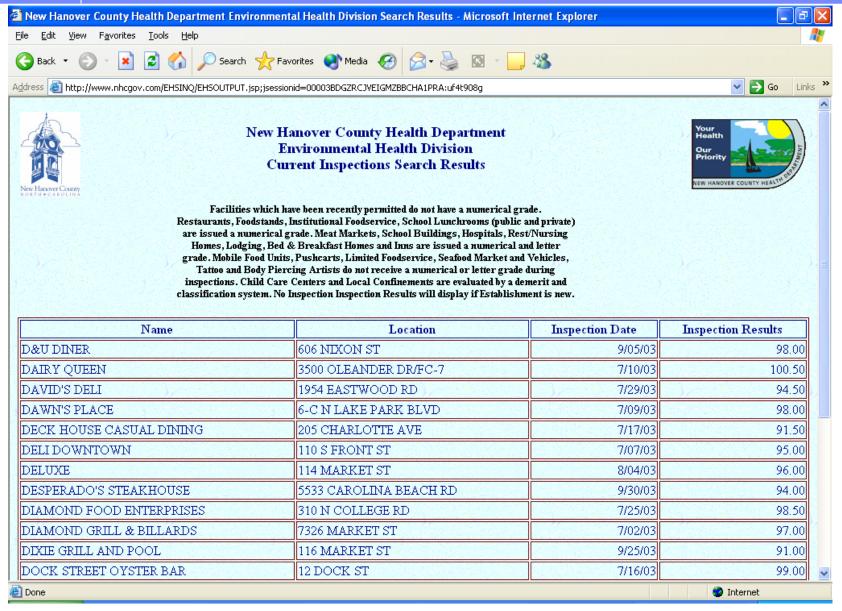




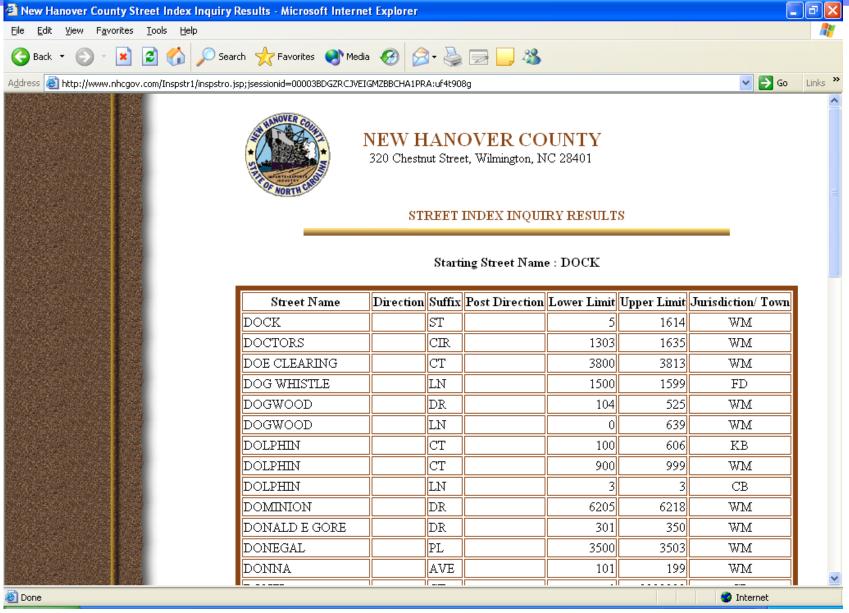




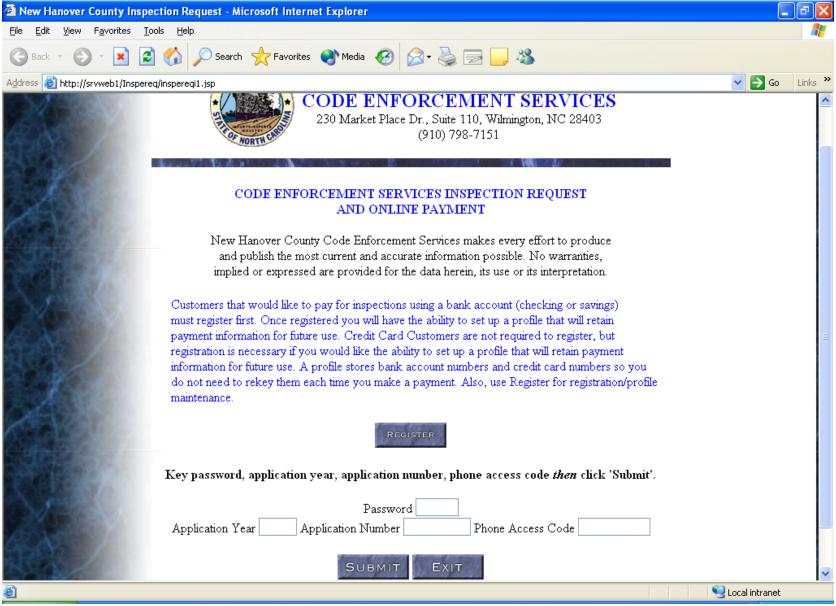




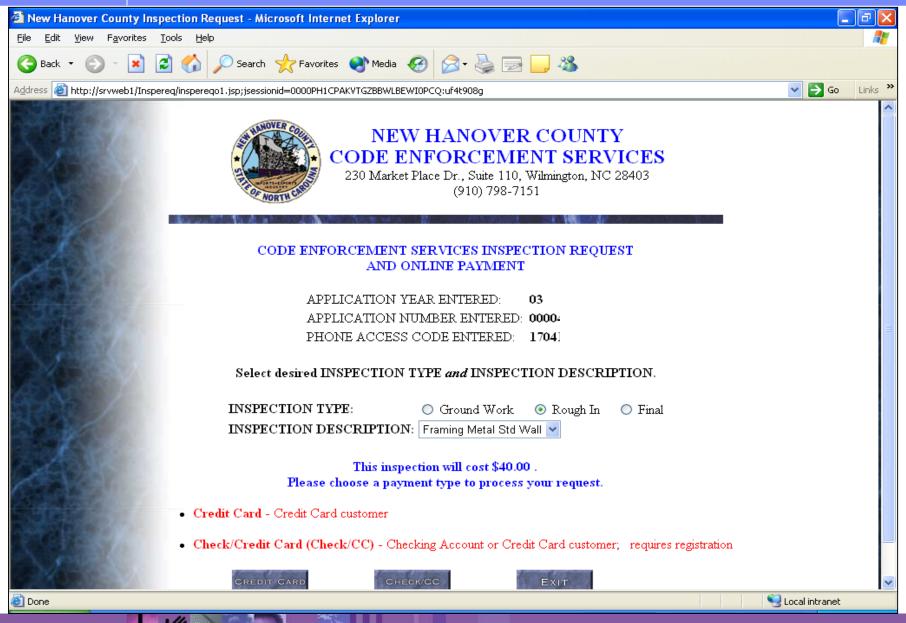




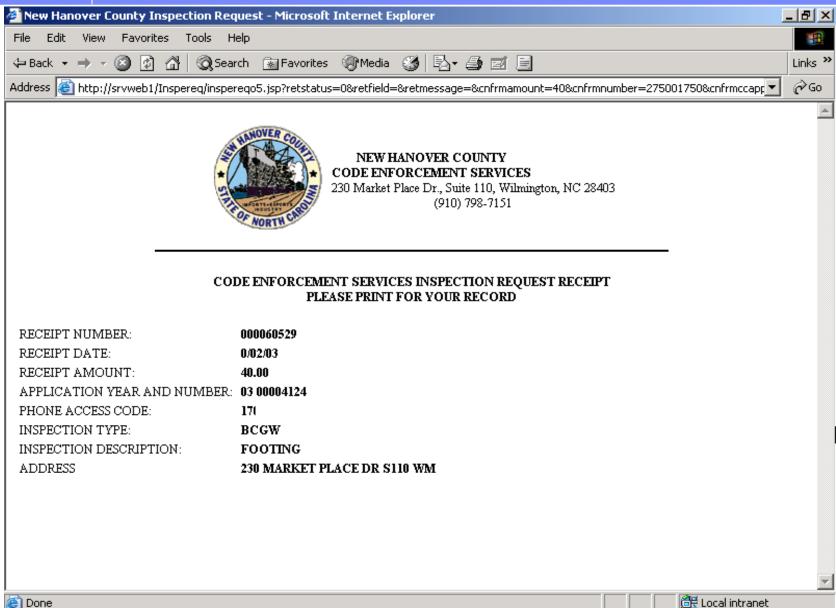














Host Integration Values

- Enhanced responsiveness by extending information and services to new & existing users
- Build on existing application logic and data
- "Webify" without coding No application rewrite, lower cost, lower risk
- Results:
 - Improved responsiveness
 - · More timely information
 - Expanded hours of availability
 - Improved clerical productivity
 - Employee driven apps become self service apps
- Solve today's information requirements with yesterday's applications
- Build composite applications from existing data sources
- Results:
 - Quick implementation, responsiveness,
 - Immediate ROI, cost effectiveness
 - Improve employee productivity
- Modernize and streamline existing applications with graphical interface
- Results:
 - Lower training costs
 - Lower help desk support costs
 - Reduce error rates and speed data entry