

# Innovate2011

The Rational Software Conference

11th and 12th of October

Let's **build** a smarter planet.



## Enterprise Modernization for Power Systems

By: Royal Cyber, Inc.



**Royal Cyber Inc.**  
Individualized E-business Solution



The logo for isgn, featuring the lowercase letters 'isgn' in a black, sans-serif font. The letter 'i' has a red dot above it.

Client: **ISGN**

Solution: **IBM HATS**

Solution provider: **Royal Cyber, Inc**



**Royal Cyber Inc.**  
Individualized E-business Solution

A decorative graphic at the bottom left corner consisting of several overlapping, semi-transparent geometric shapes in shades of blue, purple, and magenta.

**Innovate2011**



ISGN is one of the most diverse and experienced providers of mortgage technology and services.

## Business Need

ISGN wanted to improve their employees' & customers' access to their iSeries applications.

To fulfill their need of Loan Origination, Settlement, Servicing, Default Management and ISGN eExchange solution needs etc.

## Problem ...

- ✓ Screens not attractive in look and feel (Poor GUI)
- ✓ Challenging to navigate 30+ screens quickly to make a decision
- ✓ Complicated application interface(screens) turns user(s) confused (or even scared).
- ✓ Green screen environment, its navigation & overall operation increases Learning Curve.
- ✓ Geographical constraints in the absence of Web-enabled interface.
- ✓ High threat from market rivals with cutting-edge technologies.



## Solutions...

### **IBM HATS solution provided by Royal Cyber helps...**

- ✓ Beautiful look and feel in default rendering along with complex screen combinations.
- ✓ Tabbed folders on a single page representing 30+ screens data.
- ✓ Advanced screen scraping mechanism used to transform 5250 screens into HTML pages.
- ✓ Improved, fast, and easy navigation among multiple screens using Menu Macros.
- ✓ Decreased learning curve using web-based screen saved training cost
- ✓ Higher productivity and business satisfaction guaranteed.



**Horizontal** and **Vertical Tabs** are created to combine multiple screens into one screen.

The screenshot displays the iSgn Loan Servicing and Accounting Management System interface. At the top, the system title and release version (1.7.08) are shown. Below this, there are four horizontal tabs: "Loan Master Inquiry", "Miscellaneous Loan Data", "Detail Transaction History", and "Miscellaneous". The "Miscellaneous Loan Data" tab is currently selected.

On the left side, there is a vertical menu with the following options: "Property Info", "Plan Info", "Delinquency Info", "Prior Svcing Info", "Statement Info", "PMI Info", "Current Info", "Misc Info", "Orig Info", "User Info", "Credit Scores", and "Coll History". The "Property Info" option is selected.

The main content area displays the following information:

Loan Number 0000000141    Last Name TALLEY

Address Line 1	3550 ENGINEERING DRIVE		
Address Line 2			
Street Number	0000000000	Street Direction	
Street Name		Suffix	
Unit Number			
City	Newton Junction	State/Province	RI
Zip/PC	09303	Country Code	USA
Legal State	GA	Date Home Built	
Vectus Tracking #	0000000000		



**Menus** are created using **HATS default rendering** that greatly improves the navigation among multiple screens.

**isgn** LOAN SERVICING AND ACCOUNTING MANAGEMENT SYSTEM  
Release 1.7.08

BOY LOAN SERVICING and ACCOUNTING MANAGEMENT SYSTEM

▶ 1. TRANSACTION PROCESSING MENU	▶ 12. QUERY MENU
▶ 2. ESCROW PROCESSING MENU	▶ 14. ORIGINATOR MASTER MENU
▶ 3. NEW LOAN SETUP MENU	▶ 15. WORD PROCESSING MENU
▶ 4. OPTIONAL INSURANCE MENU	▶ 16. LOOK AT LOAN INFORMATION MENU
▶ 5. BORROWER SERVICES MENU	▶ 17. REPORTS MENU
▶ 6. DELINQUENCY CONTROL MENU	▶ 18. YEAR END MENU
▶ 7. BANKING OPERATIONS MENU	▶ 19. LOAN MAINTENANCE MENU
▶ 8. ACCOUNTING FUNCTIONS MENU	▶ 20. INVESTOR ACCOUNTING MENU
▶ 9. OPERATIONS MENU	▶ 21. SYSTEM MAINTENANCE MENU

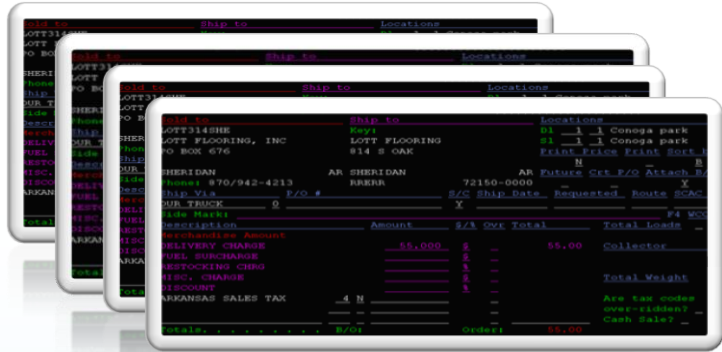
Enter Number:

22. Select Printer    23. User Applications    24. Sign Off    25. System Functions



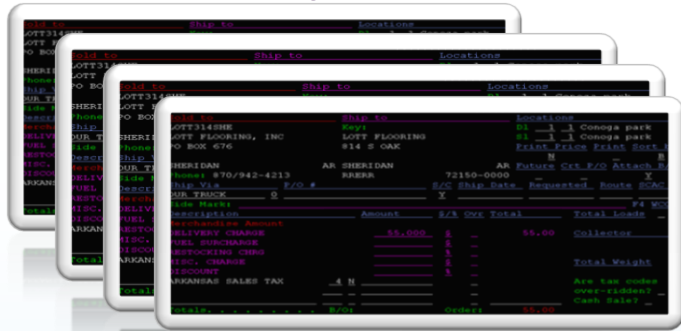
## HATS Benefits:

1. Modernized legacy system using powerful screen-scraping mechanism of IBM HATS.
2. Latest application permits users to access it by just specifying URL in an internet browser.



# HATS Benefits:

- 3. Combined multiple screens' data in a consolidated manner using Tabs.
- 4. Instant transformation of host components into a rich & interactive UI.
- 5. Ease of Navigation.



### Advanced Tabbing Mechanism and Scrollable Regions

isgn LOAN SERVICING AND ACCOUNTING MANAGEMENT SYSTEM Release 1.7.08

Loan Master Inquiry    Miscellaneous Loan Data    Detail Transaction History    Miscellaneous

<b>Property Info</b>	Loan Number 000000141    Last Name TALLEY		
<b>Plan Info</b>	Address Line 1 3550 ENGINEERING DRIVE		
<b>Delinquency Info</b>	Address Line 2		
<b>Prior Svcing Info</b>	Street Number 0000000000	Street Direction	
<b>Statement Info</b>	Street Name	Suffix	
<b>PMI Info</b>	Unit Number		
<b>Current Info</b>	City Newton Junction	State/Province	RI
<b>Misc Info</b>	Zip/PC 09303	Country Code	USA
<b>Orig Info</b>	Legal State GA	Date Home Built	
<b>User Info</b>			
<b>Credit Scores</b>			
<b>Coll History</b>	Vectus Tracking # 0000000000		





# HATS Benefits:

- 6. Saves cost in resource trainings.
- 7. Increased productivity and user satisfaction.

The image displays three overlapping screenshots of the iSgn Loan Servicing and Accounting Management System (Release 1.7.08). The top-left screenshot shows a 'Loan Master Inquiry' screen with a table of loan records. The top-right screenshot shows a 'Loan Master Inquiry' screen with tabs for 'Loan Master Inquiry', 'Miscellaneous Loan Data', 'Detail Transaction History', and 'Miscellaneous'. The bottom screenshot shows a 'BOY' menu with 25 numbered options: 1. TRANSACTION PROCESSING MENU, 2. ESCROW PROCESSING MENU, 3. NEW LOAN SETUP MENU, 4. OPTIONAL INSURANCE MENU, 5. BORROWER SERVICES MENU, 6. DELINQUENCY CONTROL MENU, 7. BANKING OPERATIONS MENU, 8. ACCOUNTING FUNCTIONS MENU, 9. OPERATIONS MENU, 10. QUERY MENU, 11. ORIGINATOR MASTER MENU, 12. WORD PROCESSING MENU, 13. LOOK AT LOAN INFORMATION MENU, 14. REPORTS MENU, 15. YEAR END MENU, 16. LOAN MAINTENANCE MENU, 17. INVESTOR ACCOUNTING MENU, 18. SYSTEM MAINTENANCE MENU, 19. Select Printer, 20. User Applications, 21. Sign Off, 22. System Functions, 23. Print Loan Data, 24. Print Loan Report, 25. Print Loan Summary, 26. Print Loan Statement.



**fiserv.**



Client: **Fiserv**

Solution: **IBM HATS**

Solution provider: **Royal Cyber, Inc**



**Innovate2011**



Fiserv, Inc. (NASDAQ: FISV) is the leading global provider of information management and electronic commerce systems for the financial services industry.

## Business Need

**Fiserv** wanted to improve their employees' & customers' access to their “**The PLUS™ System**” management system, that manages the credit processing lifecycle from account setup, card issuance, purchase authorization, accounts receivable management and transaction posting to statement/billing, account servicing and correspondence.

## Problem ...

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Horizontal and Vertical Tabs are created to combine multiple screens into one screen.

66 **fiserv.** Friday, April 15, 2011 9:01:21 AM  
QA Region Log Off

Acct Services Authorizations Collections Credit Decision **Credit Mgmt** Interchange Trk Letters Merchants Security Log Off

**Navigation** Account Record Maintenance Page 05

Portal  
Customer Search ▶  
Account Summary  
Locate

Account History  
Account Work  
Batch Inquiry  
Rep Queue  
Rep Status  
Statement Reprint

**Account Record** ▶  
Acct Credit Plans ▶  
Billing History  
Corp Accts ▶  
CTD Trans  
Customer ▶  
Delq Adjustment  
Embosser ▶  
Payment History  
Statement History  
Transfers ▶

**Armn H Tew F** Org **005** Account **000514070000005418** BC 1 **R - Revoke Car** PCT ID  
Logo **001** Status **Z - Charge-Off** BC 2 **Y - Ccs Tmpblk** **IL**

**1 - Credit Bureau / Bankruptcy / Charge-off** 2 - One-Time ACH Payment 3 - 1098/1099-C Indicators 4 - Internet / Other

**Credit Bureau Special Condition Reporting**

Credit Bureau Special Comment Code

Credit Bureau Compliance Condition Code

**Bankruptcy Information**

Bankruptcy Discharge Indicator

Amount Interest **0000000000**

Amount Fees **0000000000**

Total Amount Discharged **0000000000**

**Charge-off Information**

Final Charge-off Discharge Date **00/00/0000**

Cancel Save / Go to Inquiry Save Save and Continue



# Left Menu, Top Menu, Sub Menu, Drop Down & Drop Left Menus are created using HATS default rendering that greatly improves the navigation among multiple screens.

The screenshot displays the FISERV application interface within a Windows Internet Explorer browser. The browser's address bar shows the URL `http://localhost:9081/FMOPlusB/entry`. The application header includes the FISERV logo and a top navigation menu with items: Acct Services, Authorizations, Collections, Credit Decision (highlighted), Credit Mgmt, Interchange Trk, Letters, Merchants, Security, and Log Off. The date and time are shown as Monday, September 26, 2011 8:30:49 AM, QA Region.

The main content area is titled "Application Input - Add" and features a left navigation menu with categories like Portal, Account History, App Directory, and App Input (highlighted). The main form area includes fields for "Org" (125) and "Type" (100), and a "Field Name" section with various input fields such as "Annual Income Amount", "Cell Area/Phone", "Other Income", "Relationship To Appl", "Total Annual Income (Own (R)ent)", "Monthly Payment", "Mortgagor/Landlord", "Name Of Bank", "Appl Verif Code", "Store Number", "Cash Rewards", and "Appl Pull Bureau?". A "Required Data" section is also present. A "Continue" button is located at the bottom right of the form.

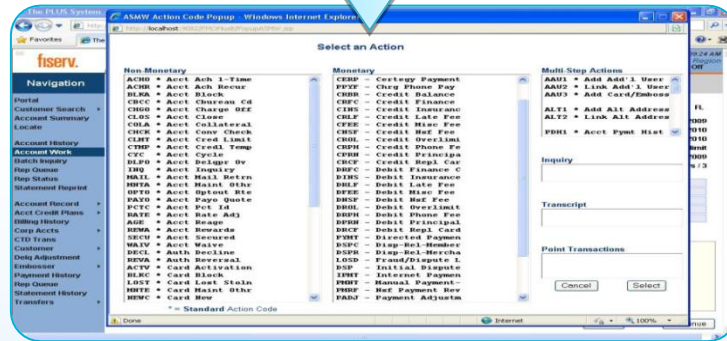
Overlaid on the interface are two blue menu boxes. The first is a vertical list of actions: Account Browse, Account Info, Account Locate, Account Reassign, Appt Queue, Coll History, Coll Queue, Coll Reassign, Memo Add, Payment Schedule, Prior History, and Satisfy Account. The second is a horizontal list of actions: Addition / Deletion, History, Inquiry, Inquiry Continued, Maintenance, and Transactions. A third menu box is open under "Addition / Deletion", listing: Account Add, Classification, Collection Letter, Collector, Criteria, Manager, Memo Add, Organization, Supplemental Info, Tickler Add, and Tickler Delete.





# HATS Benefits:

HATS allows us to take information from several screens and presenting them in one screens with a scrollable bar and introduce the ability to point and click to perform a function.



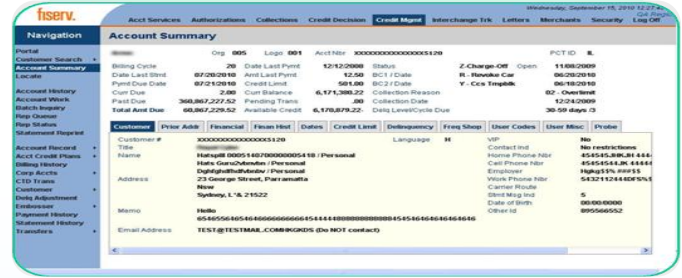
Account Work Action Codes Popup (GUI Version)



# HATS Benefits:



Account Summary Detail Pages  
(Green Screen Versions)



Account Summary Detail Page  
(GUI Version)



## Enterprise Generation Language (EGL)

Client: **MilitaryCars**

Solution: **IBM Enterprise Generation Language (EGL)**

Solution provider: **Royal Cyber, Inc**



Innovate**2011**





**Exchange New Car Sales (ENCS)** is a division of **Overseas Military Sales Group (OMSG)**. **OMSG** and its divisions operate in **30 countries** in over **100 offices** throughout North America, Central America, South America, Europe, the Middle East and Asia.



**ENCS** is authorized distributor for **Chrysler**, **Ford** and **Harley-Davidson** to military personnel.



## Business Need

MilitaryCars wanted to improve their employees' & customers' access to its AS400-based application.

To fulfill their

- Vehicle Tracking
- Order Tracking & Status
- Purchase history & Status
- Customer Info

Previously employees & customers had been accessing the application through cumbersome terminal-style interfaces.

To improve visibility, navigability, accessibility and serviceability of the AS400 applications, **MilitaryCars** decided to *modernize their enterprise application*. They also wanted to expand their offerings by creating a Web-based hosting solution that would enable them to host their customers' businesses at **MilitaryCars** locations. The company viewed these modernization initiatives as essential to improving customer satisfaction, garnering increased business from existing customers and ultimately expanding the customer base.

- Calling multiple **RPGLE** programs within one Web service.
- Calling/Combining **DB2** records & **RPGLE** programs within one Web service.
- Developing Rich Client Application (**RIA**) for web services (over **RPGLE**).
- Integrating **Google Maps (Mashup)** dynamically.
- Development of Rich **Web 2.0** widgets.
- Modern, **Ajax** powered **Grids** with **Pagination**, **Sorting** etc.







Order No. 9102125835

ORDER ID	RECEIPT DATE	RECEIPT AMOUNT	DESCRIPTION	RECEIPT REMARK
9102125835	03-09-2008	2943	Ach TRANS	CN-FA04022-09
9102125835	03-04-2008	200	Ach TRANS	CN-FA06015-09
9102125835	03-26-2008	7800	Pin Money	CN-FA020514-09
9102125835	05-10-2007	300	Transfer Cash	CN-FA02213-07
9102125835	05-18-2007	300	Transfer Cash	CN-FA028198-07
9102125835	05-18-2007	300	Transfer Cash	CN-FA02804-07
9102125835	05-18-2007	300	Transfer Cash	CN-FA02162-07
9102125835	05-18-2007	300	Transfer Cash	CN-FA024415-07
9102125835	05-11-2008	300	Transfer Cash	CN-FA01192-08
9102125835	05-11-2008	300	Transfer Cash	CN-FA04039-08
9102125835	05-18-2008	300	Transfer Cash	CN-FA027615-08
9102125835	05-14-2008	300	Transfer Cash	CN-FA020512-08
9102125835	05-12-2008	300	Transfer Cash	CN-FA02317-08
9102125835	05-13-2008	300	Transfer Cash	CN-FA02802-08

Grid Sorting



GoogleMaps

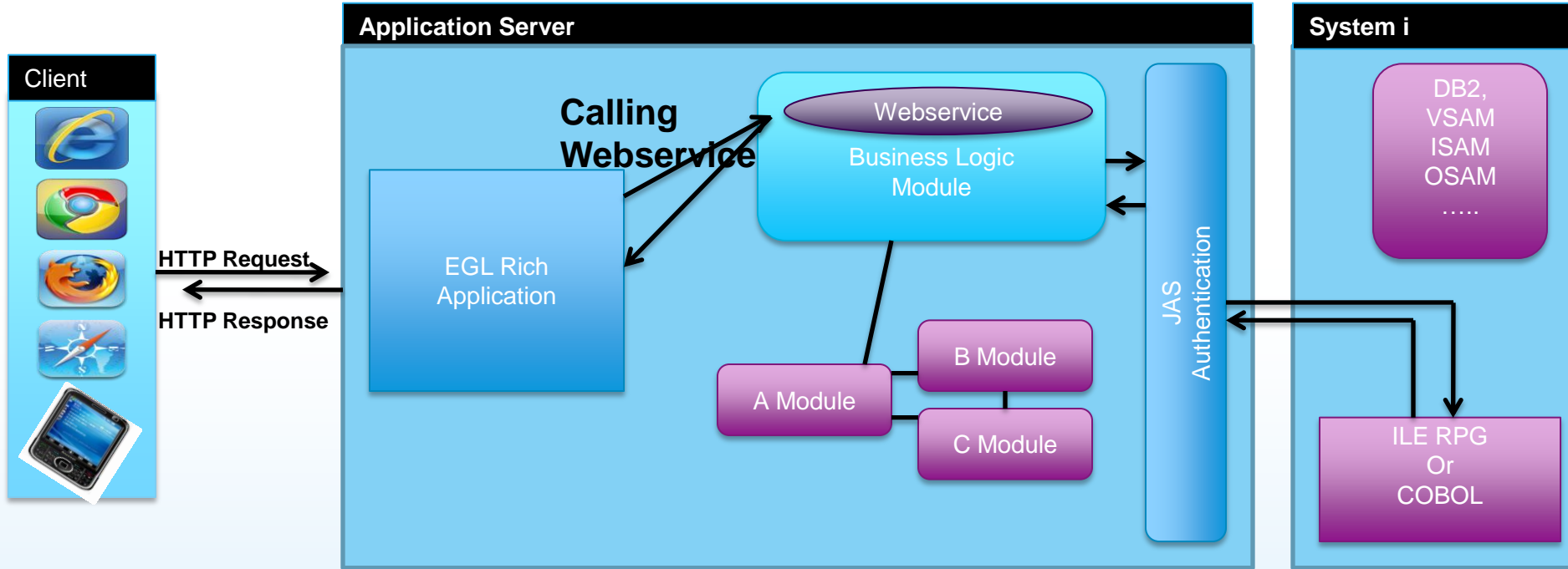
Rich Widgets

Ajax Rendering

Auto-Cells formatting

Grid Pagination

# Architecture Overview



## Benefits

The EGL application enabled **MilitaryCars** to create **reusable services** from its existing **iSeries** assets which can be included as a part of a service-oriented architecture (**SOA**). With the SOA in place, **MilitaryCars** can enable other applications- such as Microsoft **.NET** and **Java** applications - to effectively communicate with IBM iSeries applications without the need for new code.

- ❖ Rapidly respond to the needs of the Business
- ❖ Integrate with/into cutting-edge technologies (Web 2.0, Mobile ,etc...)
- ❖ Run on a range of platforms ( Mobiles, iPad, gadgets , etc...)
- ❖ Appealing intuitive UI to increase employee productivity & boost customer satisfaction.
- ❖ Reduces training costs by cutting down the time required to train users
- ❖ Cuts license and administration costs by 20% to 30% by enabling users anywhere in the world to access the system using a browser.

