

# Enterprise Application Viewer - Rapid Program Modernization

Tool-assisted re-engineering is the process of modernizing an existing application so that it uses a new database management system, a new language and a new look-and-feel but retains the same basic functionality. Tool-assisted re-engineering at Modern Systems is performed using eavRPM to develop the new application, allowing business analysts to be involved in the decision of what business rules to retain and what visual and navigational enhancements should be incorporated.



## Mainframe Maps-to-Web Pages

- View your BMS or Natural maps with eav
- Right click to copy a map
- Click to paste the map into a new web page
- Click to add your logo Click to change the header date, time, and user info to be browser-based
- Drag and drop data from DB2, SQL Server, or Oracle into the fields on your new web page
- Click to change the look, feel, and flow of the application

eavRPM allows a user to copy and paste mainframe maps, business rules and other source code from mainframe languages to web pages quickly and easily. Modernization using eavRPM can be performed as a service by Modern Systems or by your team using eavRPM licenses. The result: Native web applications with no middleware, no black boxes, and no ongoing license fees. The benefit: Leverage your proven business rules with a brand new user interface, continued keyboard features with new mouse-driven and scrollable features, and much lower operating costs for your organization. The bottom line: Less cost, more features, full agility, complete scalability, and the ability to add colors, graphics, video and all of the visual interest that today's world wide web offers.

## New Look, Feel, & Touch

- Click to add buttons, checkboxes, radio buttons and pull-downs
- Click to change repeating fields to grid views, paging objects or data views

eavRPM uses your mainframe applications as the basis for new off-mainframe applications. It produces object-oriented applications that are easy for your C# and Java teams to maintain and enhance. It produces web applications that contain the business processes that you use today along with all of the enhancements that the web offers - mouse-driven features, pull-downs, checkboxes, gridviews, etc.

For pennies per screen in an afternoon, leverage your existing applications to construct the entire web application prototype, including all of the screen layouts and full screen-to-screen traversal. The new HTML pages and the C# or Java code-behind files are generated by eavRPM based upon the existing map layouts. The transformation process continues with copying-and-pasting the business rules into the new pages.

## Retained Business Rules

- View your COBOL or Natural code with eav
- Select long-standing business rules that run your business
- Right-click to copy the COBOL or Natural rules
- Click to paste the rules as C# or Java
- Paste rules to the new objects on your pages

The development of Enterprise Application Viewer Rapid Program Modernization (eavRPM) was driven by market demand for a complete suite of tools that enable concurrent application modernization during the migration process. In essence, companies that wanted to be able to modernize their applications at the same time they were migrating to newer platforms can now accomplish this goal with eavRPM. It is also possible to take full advantage of relational technologies, such as Microsoft's SQL Server, and new platforms, such as the .NET Framework.

With eavRPM, you can seamlessly transform mainframe applications to C# or Java while also having the freedom to customize the user interface and the functionality of your existing applications.



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## Features

- Provides an intuitive Graphical User Interface for ease of use
- Captures map layouts with the ability to copy and paste BMS MAPS or Natural MAPS, turning them into HTML and ASPX with C# code-behind files or to Java running in the IDE of your choice
- Works with SQL Server, Oracle or DB2 data stores. The new database can be a mirror of an existing database, created from scratch or fit into your purchased ERP or SAP package.
- Permits viewing and querying data during the development lifecycle
- Produces self documenting and well structured applications
- Allows rapid modernization and transformation
- Captures lines of code from mainframe to C# or Java
- Uses eav's underlying SQL Server database
- Provides eav's viewing capabilities for application understanding
- Permits application and program traversal
- Produces program and relationship diagrams for understanding
- Includes refactoring features
- Captures and refactors line-by-line to C# or Java
- Processes re-naming rules
- Generates automatic buttons, pull-downs, grids and scroll bars
- Allows enhancement of existing mainframe functionality

## Reduced Costs

From a business perspective, eavRPM makes fiscal sense. It frees companies of the licensing fees that can often cripple an IT budget, costing tens of thousands of dollars. With eavRPM, once the modernization is complete, you won't need to use it any longer. There are no hidden licensing fees or proprietary software to hold your organization financially or structurally captive. eavRPM is simply a powerful tool to facilitate modernization and is not tied to your program's ultimate functionality.

eavRPM uses intuitive copy features to capture lines of COBOL or Natural code that can then be pasted into eavRPM. The result is pure C# or Java code generated for the modernized program. The new program maintains the integrity of the legacy code functionality.

With eavRPM, reduce costs across the organization:

- Reduce maintenance costs, which often account for more than 75% of an IT budget
- Reduce downtime by resolving critical production issues in a fraction of the time
- Reduce project cost overruns by accurately estimating enhancements and new development efforts
- Maintain, enhance, and develop applications with fewer team members
- Reduce IT project headcount by including business team members in IT analysis and customization

## Simple Modernization

eavRPM was designed to simplify the modernization process by leveraging a direct connection to SQL Server, Oracle or DB2. Users create modern applications via an easy-to-use graphical user interface. Simply capture lines of COBOL or Natural code and eavRPM automatically refactors it to C# or Java.

Even your business analysts who don't have prior programming skills can specify the basic screen processing needed to enhance business performance. They use point-and-click master page definitions and build visual templates with consistent headings, footers, etc. They can also split, merge or change screens for ease of use. Depending on its scope, a complete application can be prototyped in a matter of hours or even minutes. Style sheets are also available to maintain visual consistency in your modernized program. Company logos are easily dragged and dropped in for a uniform look. Database queries and other objects are similarly dropped in place to standardize object access.





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## Intuitive Tool Set

eavRPM is a strategic tool that delivers a custom, efficient user environment. With an easy-to-use painter, a user can drag and drop logos, objects and database queries, modernizing the application on the fly while maintaining code functionality. Because of its ease of use, on-staff business analysts can create new applications appropriate to your business environment.

With point-and-click source definition, the system generates real-time data previews for testing to ensure you get the desired results. This rapid modernization method means that web pages can be created in just seconds.

## “Native” Applications

While many conversion tools result in completely different business functions, eavRPM lets you use native browser features as it provides full object support, such as literals, fields, drop-downs, check boxes and buttons. Consequently, your users will be familiar with the processes once the system transformation and modernization are complete.

Because eavRPM generates native C# or Java solutions, it is able to generate true C# objects that are delivered to Visual Studio as a project, or object-based Java applications that are delivered to your Integrated Development Environment (IDE) of choice. No additional tools are required.

With eavRPM, your company can save its legacy assets and business rules.

## Flexibility for the Future

eavRPM was designed to be flexible and scalable, to facilitate future modifications.

- DB-Shuttle’s prototyping language included
- Supports any-to-any language transformation
- Generated C# and Java code easily customized (Code Exchange planned)
- Pseudo-code editor to customize the results

## System Requirements

- Microsoft Windows 2000, XP, Vista or 7
- SQL Server 2005 or higher
- eavRPM is installed using a standard Windows InstallShield program

## Modernization the Way You Want It

Modernization using eavRPM can be performed as a service by Modern Systems or by your team using eavRPM licenses. Work with us to decide the most efficient path for your company.

