



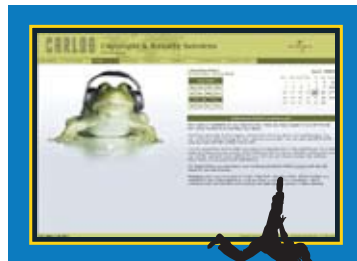
# WebSmart

The most complete System i Web Application Development Solution

## What is WebSmart

WebSmart is a multi-award winning System i Web application development solution. It is used to quickly build powerful and secure System i and multi-platform web applications, extend or modernize existing System i programs or to create web services. WebSmart's IDE is a versatile Windows based design tool that includes application templates, sophisticated wizards, a visual HTML editor, 100+ routines, SQL prototyping, built in change management, a visual debugger and more. Depending on the WebSmart edition you choose (**ILE RPG-CGI, PHP or Java**) you can create robust applications hosted on the System i using the APACHE web server and/or Windows, Linux or Unix accessing multiple databases including DB2/400, MySQL and MS SQL Server.

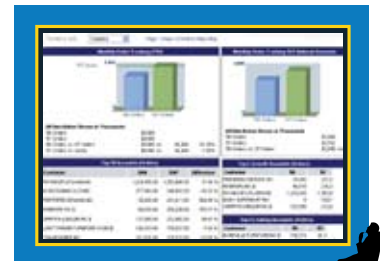
WebSmart, winner of 13 industry awards, is technology System i people truly understand. Its flexibility lets you build powerful applications and extend existing ones. Create elegant applications: Inquiries, Maintenance, Order/Entry, B2B, B2C, eCommerce, Wireless and more. It supports advanced web technologies such as SOA, Web Services, AJAX, Google Maps, Graphical Business Metrics and KPIs, and output to Excel. Over 1,750 organizations and 1,500,000+ end users have already placed their confidence in WebSmart and WebSmart created applications. WebSmart is IBM ServerProven and is listed on IBM's System i Developer Roadmap.



**Universal Music Int'l**  
Global Royalty system



**Mitsubishi FUSO**  
Dealer Inquiries



**Executive Dashboards**  
Key Performance Indicators (KPIs)

**WebSmart PHP added to the WebSmart family of products.** WebSmart PHP uses the same IDE as WebSmart ILE and includes all the same productivity benefits such as templates, wizards, repository and change management. WebSmart PHP creates PHP apps using new templates that create the PHP code for you (*it does not use PML*). The PHP apps run on the System i and other PHP-supported platforms such as Linux, Unix and Windows with no proprietary code. You'll also be able to access databases such as DB2 and MySQL. Move seamlessly between writing ILE CGI and PHP applications using the same design tool. Take advantage of this very popular open source language for web development that is fully supported by IBM and offers a wealth of free scripts.

## WebSmart Benefits

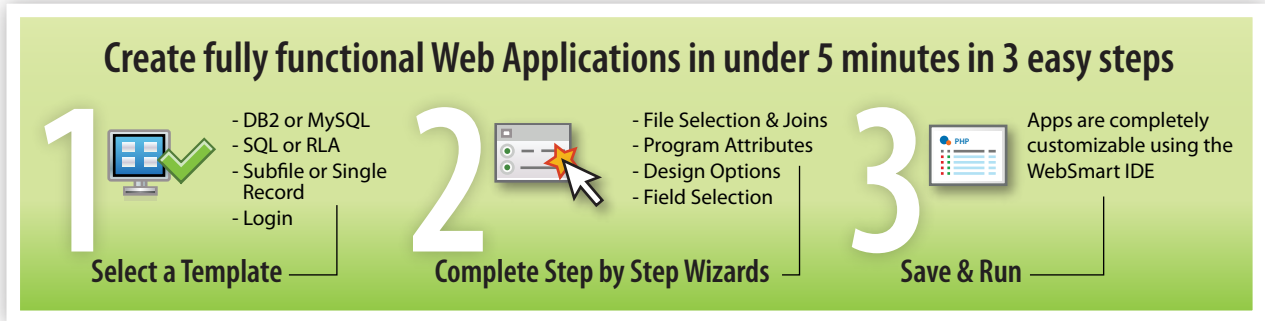
- **Save time and money by shortening the programming life cycle:** Create web applications in a fraction of the time of hand-written or complex Java-based solutions. Even if you have never written web applications before, WebSmart lets you quickly produce true Web applications that take full advantage of all the latest technologies and Web programming techniques.
- **Leverage existing RPG skills:** Use your existing staff to develop web applications. Over 95% of WebSmart programmers are RPG programmers, often with no previous web development experience. Only 15-20% of those developing with WebSmart have actually received formal training.
- **Leverage your existing System i hardware:** More than 95% of customers do not require hardware upgrades.
- **Provide better services:** WebSmart applications give employees, clients, vendors and manufacturers real-time information about your products and services and allows them to perform online transactions (*Orders, Claim Warranties, etc*). This saves time and money by eliminating processes such as clients or vendors calling customer service reps to inquire about shipment and distribution tracking information, inventory availability and order status. WebSmart applications are accessed via browsers or hand held devices which also gives your sales team real-time information while on-site with customers and eliminates the need for manual data transfers.
- **Buy with Confidence:** Try a complete version of WebSmart on a free trial basis.
- **Part of an Integrated Modernization Solution:** WebSmart is available by itself or as part of a complete integrated business modernization suite that provides a full range of functionality including portal technology and web application frameworks (*Nexus Portal*), web query and report creation (*Clover Query*) and automated report distribution and document management (*Catapult*).

"WebSmart is the fastest, most flexible, easiest to learn and use development tool for the System i. It's great."

Bill Hicks  
LAMPS PLUS



## Ease of Development



## Produce Powerful, Secure and Scaleable Applications

With WebSmart you can often write complete, Web-native applications in as little time as it would take to generate a simple screen-scraped or 5250 program. However, the finished product looks and runs far superior; you'll be running native ILE CGI programs, PHP scripts or Java servlets directly on the System i or other platforms. WebSmart's server-side components deliver HTML or rich-client Web pages that comprise all the features you've come to expect from commercial Web sites: beautiful graphics, drop-down menus, Flash charts and graphs, Executive Dashboards and KPIs, AJAX functionality, Web Services and SOA, email, log-in pages, powerful search functions, pop-up window lookups and calendars, export to Excel spreadsheets, Google Maps, complete order-entry functionality, shopping carts and more. And, WebSmart supports SSL and includes native tools for 128-bit AES encryption along with System i user profile validation functions to allow you to create applications as secure as or more secure than any 5250 green-screen application.

**"In a short period of time I found that Web services are a very simple thing to implement when you use WebSmart."**

*Weems Hutto,  
RVOS Farm Mutual  
Insurance Company*



Google Maps



Dashboards



Web Services

## Performance Benefits

WebSmart ILE applications run natively in the HTTP subsystem, using the System i powered by Apache web server. These apps run as native ILE programs in a set of open jobs that avoid the overhead associated with middleware such as WebSphere, and that maximize throughput and performance. The unique combination of operating-system optimization features along with WebSmart's own page delivery optimization technology ensures that you get the best possible throughput and scalability for your application's needs. Unlike IBM's HATS, there is **no interactive tax** associated with WebSmart. In fact, many servers get even better performance with WebSmart apps than with 5250 apps because the programs created using WebSmart are 100% compiled and run 100% in the batch subsystem.

## Reuse Existing RPG Code and Extend or Modernize Existing Apps

- Convert RPG logic and/or DDS with the optional RDW component (*Free license - maintenance only*). Select entire programs or specific routines to convert into PML and HTML which you can then use in a new or existing WebSmart program.
- Call existing legacy programs, modules, procedures or subroutines directly from WebSmart.
- Create your own PML functions using existing RPG code.

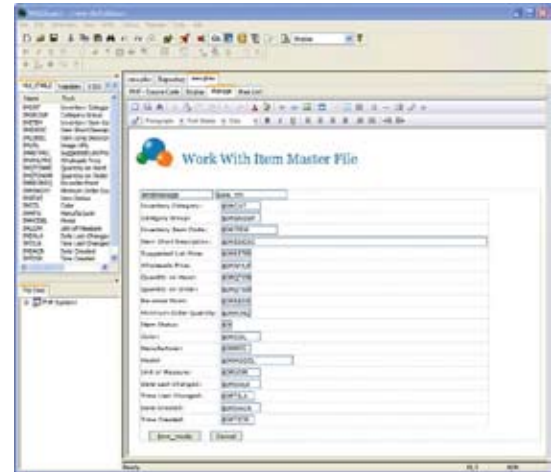
**"WebSmart is marvelous! We use it to replace older System i green screens and found that the modernized screens we created with it are quite popular with our customers. WebSmart is very easy to use and it helps us do our job quickly. We love it!"**

*Tom Windham  
IT Manager  
HEWITT COLEMAN*

## Productivity Features

WebSmart is a rapid web application development tool with many features to boost your productivity as you write new or modernize existing applications for deployment in browsers or as Web Services (SOA):

- **Intelligent Templates and Wizards** step you through the entire creation of applications with no coding or HTML knowledge required. You can customize the templates and wizards to match your own corporate look and feel and your own unique functionality.
- **The new Visual HTML editor** allows developers with little web application development experience to create professional looking web pages with new ease. Rather than having to write HTML markup by hand, WebSmart's WYSIWYG design panels let you drag-and-drop images, database fields, and text quickly and easily. Switch between the HTML source code view and the visual design panel so you can see what's going on at the code level. You can make changes in either mode. WebSmart also includes Visual HTML Design Aids that let you write simple or complex HTML components with no coding and also has a seamless interface to standard WYSIWYG HTML editors such as Dreamweaver or Frontpage for the most powerful visual HTML capabilities.
- **The WebSmart IDE** is a Windows development environment used by WebSmart that includes tight System i and MySQL database integration with the HTML and PML: drag-and-drop fields, add edit codes, date conversions, and edit words. The IDE also includes flexible options to add logic to your programs such as color-coding, auto-indentation, intellisense prompting, context-sensitive help, real-time syntax-checking and options to interleave code with HTML, or to treat HTML as separate from the code, like display file DDS.
- **The Central Repository** lets you optionally define business rules, presentation rules, custom HTML components and database relations at the database level, so you maximize productivity by avoiding repetitive coding.
- **Hundreds of pre-built functions**
  - SOA and Web Services Functions.
  - Cookies, sessions, web server environment variables.
  - Strings and numeric manipulation functions.
  - Record-level Database functions – position, read, write, by key or RRN.
  - SQL functions to seamlessly include SQL database access.
  - Date and time formatting and arithmetic functions.
  - IFS functions to seamlessly read or write stream files.



*Visual HTML Editor*

"I am tremendously impressed with the fact that it takes very little time to develop a web app using WebSmart's built-in templates."

*Venu Gopal,  
HAYNES Int'l*

## Robust Enterprise Solution

- **Change Management:** WebSmart includes sophisticated project and change management features such as version archiving, source comparisons between versions, organizing applications into projects, checkin/checkout, test versus production environments with flexible runtime library list management and more. Also, WebSmart integrates with industry leading commercial Change Management solutions from other vendors.
- **Interactive Visual Debugger:** The visual debugger is built into the Windows based IDE and provides you with breakpoints, step through options with value checking and even the option to change values during debug.
- **SQL Prototyping tool:** WebSmart includes SQL templates and supports coding in SQL as well as Record Level Access. The SQL tool allows you to quickly and easily prototype your SQL strings, view the results and to save the output as .csv file. It also allows you to save your completed strings so that you can later insert them easily into your PML with the right-click option in the IDE.
- **Extend the PML programming language:** WebSmart ILE uses PML, a highly productive programming language created specifically to help RPG programmers make the transition to web programming as well as provide all the power needed to create simple or sophisticated web applications. For example, PML lets you write typical record-level access code, just as RPG does and is similar in syntax to free-format RPG. You can extend the PML language by creating your own custom PML functions using RPG or PML which are shared with all users.
- **SmartCharts Flash Graphs:** Create Flash driven charts and graphs (*bar, pie, line, gauges, etc*) and KPIs over System i data using SmartCharts which is included for free with WebSmart.

"WebSmart has been well received by our developers. I love it. It is very, very, quick, and the end results show how successful it is."

*Colin Richmond  
IT Manager  
DRAPER TOOLS*

When you purchase a System i Web development tool, you also purchase the organization that's behind the tool. We're confident you will find both WebSmart and BCD to be the very best.

### BCD's Integrated Suite of Products

With WebSmart, you're getting more than just an excellent tool—you're getting a solution that's part of an integrated suite. BCD lets you expand the modernization of your business applications further than anyone else. This includes System i hosted Portals, Web based Query tool, Executive Dashboards with KPIs, Report and Document Distribution, Web based Document Archiving, Web Services, Professional Services and more.



Dealer Inventory & Inquiry and Online Catalog created with WebSmart

Clover™ Query



Clover Real-time, Drill Down Query

Nexus™ Portal



Nexus Portal with application trees, docs, dashboards, ECM, menus, calendar...

### Integrated WebSmart Options:

- **Nexus™ Portal** Offers Application Frameworks, Security, Web Menus, Enterprise Content Management (ECM) & Executive Dashboards. License **FREE**.
- **Clover™ Query** Create real-time web queries, graphical drill downs, totals, level breaks, extract to XLS... **40% off** if ordered with WebSmart.
- **Catapult™** Auto-distribute reports and documents, auto-archive & index to the Nexus ECM. Create PDF's, split reports, forms overlay, email, HTML, RTF...
- **SmartCharts™** Has 150+ animated, drill-down Flash charts, graphs & KPI's. It's included for **FREE** with WebSmart, Nexus Portal and Clover Query.

**"IBM supports BCD's System i modernization suite WebSmart, Nexus Portal, Clover Query and Catapult and its use in the System i marketplace."**

*Elaine Lennox  
IBM Vice President System i Marketing*

### Over 1,750 WebSmart Customers

WebSmart applications are used in a wide array of industries, education and at all levels of government. Some of these are simple intranet applications. Others are complex, robust internet mission-critical applications receiving thousands of page visits daily. Clients include Starbucks, Universal Music Int'l, Formica, Kawasaki, CompUSA, Hickory Farms, Mississippi State University, Amphenol, Stanley Furniture, First Guarantee Bank, State of California, Nucor Steel, Team Air Express, United Rentals and over 1,750 other organizations.

### Winner of most System i industry awards

WebSmart has won 13 industry awards for software excellence, more than anyone in the System i marketplace.

**FREE\* Licenses for BPs, Consultants and ISVs**

*Call about BCD's Partner program*

### World Class Support and Services

BCD's development, support and marketing teams have been leaders in the market for 30+ years. Our support is consistently rated at extremely close to 100% in customer satisfaction. The BCD Professional Services Group is also available to help you jump start your project, work in tandem with you, or build your complete application.

**Try WebSmart on a free download - Visit [www.bcdsoftware.com](http://www.bcdsoftware.com)**



Winner of 35+ Industry Awards • 10,000+ Customers • 30,000+ Software Products Sold  
WebSmart is included on IBM's System i Developer Roadmap and is IBM ServerProven