

RPG / DDS to Web Conversion Tool (RDW)

Converts RPG to ILE-CGI or Java and DDS to HTML

SPECIAL OFFER
Purchase WebSmart by
3/31/05 - BCD will waive
the RDW license fee, only
maintenance will be due.

• Introduction

WebSmart uses its own highly productive language, PML to generate web applications in several target languages: ILE RPG, ILE RPG Free-format and JAVA servlets, in conjunction with HTML. Browser development with WebSmart can integrate with legacy applications by making direct program calls and by binding to existing ILE modules. The powerful PML language also allows developers to create their own functions based on new or existing ILE procedures or JAVA classes.

To further enhance the development environment, this release of WebSmart includes an add-on component called RDW -- RPG / DDS to Web Conversion Tool.



RDW automatically converts RPG source and display file DDS to PML, HTML, CSS and Javascript . This solution makes it possible to **migrate entire legacy business applications from green-screen to web applications** and allows you to work with the converted code in the WebSmart IDE where your application development can continue to take place in a **completely managed environment**.

• Automatically convert RPG and DDS for use in Web Applications

Developers can produce WebSmart programs that generate RPG-CGI programs or Java servlets using RDW as a starting point for the migration. Once the code is inside the IDE, developers can fine-tune the HTML to have a commercial-quality web application appearance. In addition, they can work with the converted code to make the programming logic compatible with web applications. Servers supported: Standard HTTP, HTTP Powered by Apache, Tomcat or WebSphere.

• Conversion Success Rate

It is expected that most programs, depending on features of the RPG and DDS language used in the original code, will have an approximate 70% to 90% conversion success rate for the RPG source and 95% for the display file DDS. Comments are included in the code where the converter is unable to translate the code to provide you with guidelines for further migration steps.

• Using the Converted Code

This component can be used to help migrate entire programs, or simply to incorporate discrete units of business and programming logic. For example, a developer could convert a complex pricing routine from RPG to PML and encapsulate the resulting code in the IDE for use in any WebSmart program.

• How it Works

The new RDW is easy to use. First select the menu option to convert RPG from within the WebSmart IDE. Next you are prompted to select a source file, and the IDE retrieves a list of RPG members and displays them to the user. It also prompts for the source file for any associated display file DDS. Once you've made your selection, the IDE displays the converted PML and

HTML. From there, you can select all or part of the converted code for use in a WebSmart created application. Once the code is inside the IDE, developers can fine-tune the HTML to have a commercial-quality web page appearance.

• Benefits of Converting RPG / DDS into Web Applications

Once converted, all the benefits of using WebSmart as a development platform are available to developers, including:

- **Code reuse** – either logic (PML) or presentation (HTML).
- **Repository-based functionality** (business and presentation rules attached to database definitions)
- **Working in an enterprise team environment** with complete, robust Change Management features that include code sharing between developers, check-in/check-out processes and more.
- **Gives you the ability to deploy code to more than one target** -- either ILE RPG or RPG Free-format, or JAVA servlets, providing a migration path for possible platform-independence.

• Distinguishing Features from other Offerings

RDW puts WebSmart in the realm of a whole new product category for Web Development and Deployment. Other offerings claim to convert source code, but have no supporting development platform specifically designed for highly productive Web Application Development.

This component not only converts source, but also incorporates the resulting converted code in the IDE where it can continue to be used in a completely managed environment.

In addition, the converted code can be used to produce web applications in native iSeries ILE objects, or as JAVA servlets. This last option provides a productive migration path for millions of lines of legacy RPG application code to potential platform independence.

Other offerings claim to interpret source or intercept data streams on the fly. This is the essential model used for screen-scraping solutions and web-facing. RDW eliminates the need for web-facing because source conversion takes place only once as part of an initial conversion and development process. Resulting WebSmart applications consist of 100% compiled objects and use a deployment model that is analogous to the most popular web application implementations such as JSP, ASP and Coldfusion.

If you have any questions, would like to evaluate WebSmart or want to schedule a Live Web Demo presentation please contact us. We look forward to you seeing the many benefits of WebSmart.

BCD, Winner of 25+ Industry Awards including 15 for Best Web, and iSeries Application Development Tools.



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