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# isCOBOL™ Web Direct 2.0
## Take COBOL applications to the cloud

As Software as a Service (SaaS) and other delivery models become mainstream, COBOL assets need to continue to evolve to remain relevant. With isCOBOL Web Direct 2.0, your business can deploy rich Internet applications written in COBOL through zero client, browser-based distribution models using standard screen section management techniques, and existing procedure division and flow.

**Simplified application distribution**

Leveraging AJAX technology, isCOBOL Web Direct 2.0 enables the deployment of fully-interactive COBOL programs to the Web without changing basic application structure. isCOBOL Web Direct 2.0 requires no ActiveX or Java to be installed, nothing to be downloaded, no waiting, and no client-side deployment; eliminating the need to install, maintain, and update applications on the desktop. With the costs of deploying and managing PCs estimated to be thousands of dollars per year, running applications on a back end server and presenting users with a Web interface can be significantly less expensive and easier to deploy and manage than traditional fat client implementations.

**Dynamic, secure processing**

By maintaining application state and utilizing current screen section techniques, procedure division and flow, isCOBOL Web Direct 2.0 provides a secure, flexible option for the ongoing evolution of COBOL applications.

To the end user, interacting with isCOBOL Web Direct 2.0 applications feels more like using a standalone desktop application than a typical Web application. Most CGI, Web Services or other stateless Web programming options split an application into single-task, self-contained services, or CGI scripts. Clicking links on such pages usually cause the entire page to refresh and feels like a "heavy" end-user operation. With isCOBOL Web Direct 2.0. pages can be dynamically updated, enabling faster response times to end-user interaction.

Because isCOBOL Web Direct 2.0 applications run completely within a browser and require no additional client-side software, organizations can leverage https transport to securely provide program access. With all application processing being performed on back end systems, isCOBOL Web Direct 2.0 eliminates potential single points of failure by offering administrators the option of implementing load balancing, clustering, and other fault tolerance deployment steps if desired.

### Highlights

- Leverages AJAX technology to deploy zero-client COBOL interface applications across the Web

- Maintains application state, utilizing existing screen section techniques, procedure division and flow

- Produces fully-interactive online applications (similar to desktop environments) able to utilize secure, standard communication transport such as https

- Reduces ongoing maintenance and support costs by simplifying application deployment

- Requires no knowledge of Object Oriented Programming, JavaScript, HTML or other Web languages to implement

- Provides innovative environment for Software as a Service (SaaS) and other Web-based delivery offerings

isCOBOL Web Direct 2.0 enables a rich client interface similar to a desktop program, and makes available to programmers graphical controls such as:

- **Bar**
- **Bitmap**
- **Check-Box**
- **Combo-Box**
- **Date-Entry**
- **Entry-Field**
- **Floating Window**
- **Frame**
- **Grid**

- **Java-Bean**
- **Label**
- **List-Box**
- **Menu**
- **Push Button**
- **Radio-Button**
- **Tab-Control**
- **Tool-Bar**
- **Tree-View**

**Leverage current skills**

No knowledge of object-oriented programming, JavaScript, HTML or other Web languages is required to implement isCOBOL Web Direct 2.0 applications. isCOBOL Web Direct 2.0 utilizes Java Servlet and AJAX technology to provide a browser-based, universal user interface client generated entirely in HTML and JavaScript so your COBOL program structure stays the same. It may be helpful to think of isCOBOL Web Direct 2.0 as a JavaScript thin client that makes use of any standard Web browser as the only client software required.

New applications and UI screens to be deployed with isCOBOL Web Direct 2.0 can be designed using the Eclipse-based isCOBOL™ IDE. Screens can be developed with the Screen Painter functionality available in the isCOBOL IDE and then tested for the Web leveraging an Apache Tomcat server running locally.

Programs and screens can be deployed for testing by following these basic steps:

1. Compile programs
2. Copy the resulting class files to the Web application classes folder
3. Click on the "Reload" link on the server's management page
4. Navigate to the web application's URL, e.g. http://localhost:8080/wd2

**A complete range of COBOL maintenance and modernization solutions**

isCOBOL Web Direct 2.0 is offered with isCOBOL Evolve from Veryant. isCOBOL Evolve provides a complete environment for COBOL development, deployment, maintenance and modernization. In addition to delivering COBOL applications through an innovative, zero-client deployment model, traditional local desktop deployment and thin client models are also available with isCOBOL technology.

Visit veryant.com for additional information.