



Web Integrator™

Application Integration Framework™ component providing programmatic access to all Internet and intranet-based applications via Java

Software Development Kit (SDK)

Web Integrator is a key component of the Application Integration Framework™. Web Integrator provides the fastest, most efficient solution for programmatically accessing web-based applications and data. While other solutions exist, they require expensive proprietary software. Web Integrator is the only open solution on the market, enabling any Java programmer to quickly and easily integrate a browser-based application with any other application in the enterprise. This AIF component includes an SDK, Runtime Environment and EAI/B2Bi Adapters.

The SDK incorporates a straightforward “Capture” and code generation process that automates programmatic access to web applications. Full application flow can be captured, providing total access to program logic and all underlying data, regardless of database structure. Significant time savings accrue when Web Integrator automatically generates the Java beans emulating this interaction. Support exists today for any HTML-based application and will soon include XML appli-

cations as well. Once created, these Java programs can be incorporated into any server side application. The real power is its unique, innovative approach. Tremendous productivity benefits are realized with the easy integration of any Internet or intranet application into your enterprise through any of the leading eBusiness integration systems. Web Integrator has been designed to integrate seamlessly with all message brokering or B2B integration systems.

In today’s complex enterprise systems, many customers desire to integrate key applications into their EAI infrastructure. However, a number of critical application subsystems provide APIs that are extremely difficult to integrate. With Web Integrator, using the HTML interface to access both logic and data, integration becomes easy.

Instead of spending months integrating an application into your enterprise structure, you can use Web Integrator to programmatically reach any Internet or intranet application functionality in weeks, saving precious time, resources and expense.

Application Capture Facility

Web Integrator SDK’s Application Capture Facility enables developers to access any application through its HTML screen interface and to use this as the primary programming interface. The developer connects to an application through the web server via URL and navigates through the application while capturing application flow. The SDK captures the steps performed and creates a model of interaction. It then provides an automated function enabling the developer to convert the captured session into Java programs. These programs include all navigation through the application, including all input and output of data from the browser.

They allow any other program to control direct requests for data to or from the application. The Application Capture Facility provides full and complete emulation of all browser supported functions.

Code Generation Facility

Using the Code Generation Facility of the Web Integrator SDK, a developer can also access, edit and save Web Integrator files. All automatically generated Java programs and all captured application sessions are included. The Code Generation Facility’s method, class and data creation wizards help guide the developer through the automated process of creating Java objects from captured application interactions. The resulting programs are 100% Java reusable objects that can be called from or linked with any other application connected to the leading EAI and B2Bi systems. And, these programs can be easily deployed on any NT or UNIX server using the Web Integrator Runtime Environment. Integrating existing Internet production applications - server side E-commerce, customer support, customer service or other - with your enterprise applications, is now possible due to the power and flexibility of Web Integrator.

Application Integration Framework™ Advantages

- **100% Java Components**
- **Full programmatic integration with any EAI or B2Bi infrastructure**
 - Suite includes SDK and Runtime Environment
 - Seamless, fully automated approach to web and legacy application integration
 - Easy integration with EAI/B2Bi or other Java APIs
- **Resource leverage**
 - Non-invasive; web and legacy applications remain unchanged
 - Access to any browser or terminal legacy application - HTML, 390, AS/400, Digital or Unix
 - Standard industry protocols

SDK

- **No coding required**
 - Access all logic/functions; capture application flow
 - Automatically generate code
- **Objects and Java Beans**
 - Faster, efficient development
 - Full object-oriented model



Web Integrator™

Application Integration Framework™ Advantages

Runtime Environment

- 100% Java programs
- Fully extensible code
- Server-based implementation
- NT or any UNIX variant
- Efficient program execution
- Built-in Java browser or terminal emulator for 3270, 5250, VT100 and VT220

EAI - B2Bi Adapters

- 100% custom Java programs to all messaging systems
- Server-based implementation
- NT or any UNIX variant
- Runs concurrently with Runtime Environment
- Full object-oriented model

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Web Integrator Runtime Environment: Full, object-oriented execution of any and all Internet or intranet-based applications.

Web Integrator Runtime Environment provides the fastest, easiest production solution for programmatically accessing all web-based applications and data. The Runtime Environment is the enabling mechanism that allows the Java programs created automatically by the SDK to execute on any NT or UNIX server.

Included with the product is an imbedded, invisible Java browser that has been optimized to provide the most robust, secure and scalable production environment available. Due to the advanced features of the browser, execution speeds are superb and processing overhead is minimal. Production throughput is limited only by bandwidth considerations.

With the Runtime Environment, you can also execute multiple applications simultaneously and/or the same application multiple times in parallel. Web Integrator provides full Internet or intranet production integration with complete and total access to application logic and all underlying data. Significant productivity benefits accrue with the execution of

automatically generated Web Integrator programs.

Full support exists today for all applications with an HTML-based API and support is being incorporated for all future XML-based applications as well. Even Internet applications not written to HTML 4.0 standards will execute flawlessly. With the release of XML 2.0 specifications, all applications will be supported.

Web Integrator has been designed with an intuitive and open API. Its extensible architecture enables a Java developer to add any extra functionality they desire very easily. Because the resultant code is all Java, these programs can be incorporated into or called from any server side application as well.

The Runtime Environment represents true state of the art technology. Just as mainframe terminal emulators extended mainframe applications to PCs, Web Integrator brings the programmatic automation of the Internet to the entire enterprise.

Web Integrator Adapters: Seamless integration of all browser-based production applications with any major EAI/B2Bi systems.

Web Integrator Adapters facilitate the incorporation of Web Integrator applications into any of the major EAI or B2Bi systems. Web Integrator Adapters promote seamless integration of browser-based applications with the major EAI/B2Bi systems thus providing access to the underlying web-based production application data from any application that can communicate via the messaging event protocol.

All Web Integrator Adapters execute concurrently with the Runtime Environment and create a seamless interface between Web Integrator and the EAI or B2Bi system. The Adapter is the only subsystem that knows both how to

receive and send EAI and B2Bi events and how to use the Web Integrator Internet application access subsystem. All of the Adapters work similarly and are based upon the Java API they present:

- The Adapter receives an event from the EAI or B2Bi messaging broker
- The Adapter finds the event info set, reads the method name and maps the event fields onto the method
- The Adapter reads the event fields and converts them into Java objects
- The Adapter calls the method of the Web Integrator access class
- A reply event is created and delivered back to the messaging system