Fast, cost-effective way to extend your e-business

IBM SecureWay Host Publisher, Version 2

Highlights

Extends the reach of your mission-critical host information through HTML delivery to any Web user

Provides access to 3270, 5250, VT52, VT100, VT220, Java classes and JDBC-enabled databases

Offers reuse of Integration Objects with Host Publisher applications as well as other Java applications

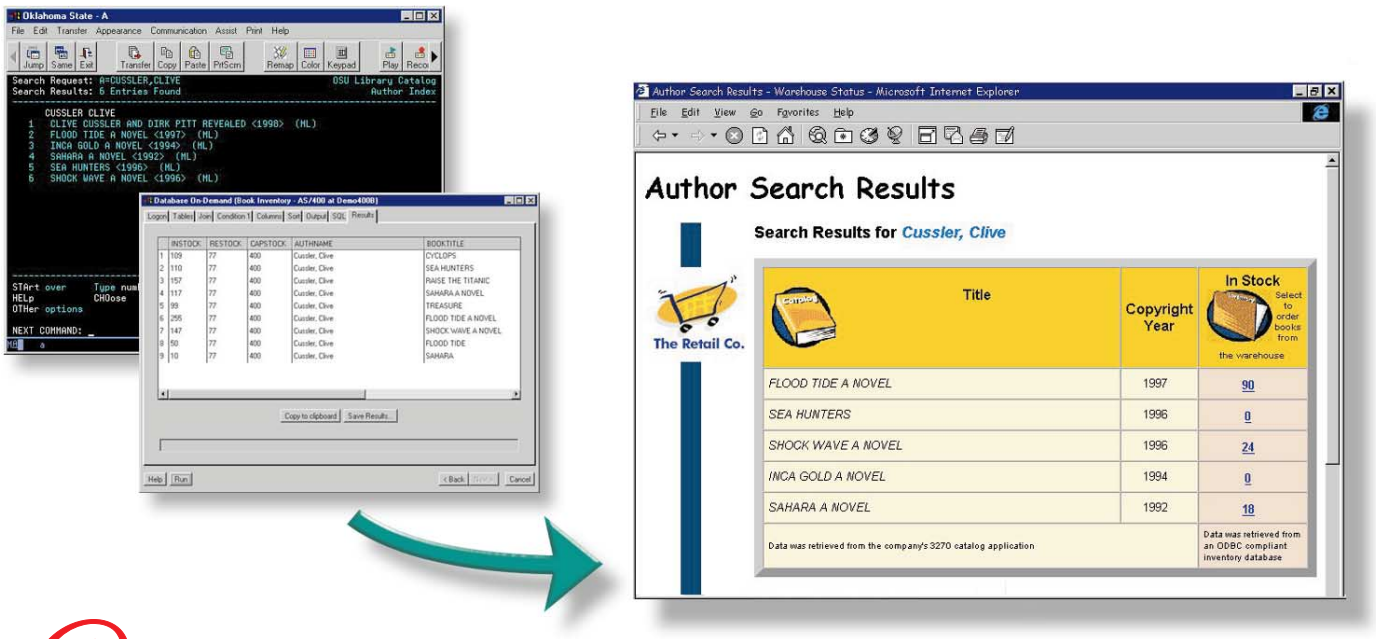
Supports multiplatform runtime environments, including OS/390, AIX, Windows NT and Solaris operating environment

Includes and integrates WebSphere Application Server, Standard Edition

Includes SecureWay Network Dispatcher, which provides load balancing and failover across multiple Host Publisher Servers

Making host information available through the Internet is an integral part of successful e-business. Web-to-host integration is one of the fastest ways to extend existing business-critical applications to your employees, business partners and customers.

IBM SecureWay® Host Publisher, Version 2 is a Web-to-host solution built to address the unique characteristics of the Internet. A key component of IBM Host Integration software portfolio, Host Publisher allows you to integrate multiple sources of data—including host and database applications—into a single Web



Host Publisher extends existing applications to the Internet—quickly and easily.

e-business

page, with no change to back-end systems. It provides the high level of security you need for your Web-based environment, offering support for Secure Sockets Layer (SSL) encryption and authentication, as well as DES-encrypted passwords. And IBM SecureWay Network Dispatcher, included with Host Publisher, provides load balancing and failover so that large enterprises can maximize Host Publisher performance, throughput and reliability.

Host Publisher consists of two major components: Host Publisher Studio and Host Publisher Server. Host Publisher Studio provides an easy-to-use customization environment to create Integration Objects that can be used on Web pages to dynamically access back-end data sources. Host Publisher Server provides the runtime environment to execute Integration Objects created with Host Publisher Studio. You can create Integration Objects and Web pages using the Host Publisher Studio, publish them to the Host Publisher Server and provide transparent host access to users.

This open, industry-standard software supports applications running on traditional host systems, such as 3270, 5250 and Virtual Terminal (VT). Host Publisher also connects to Java™ applications and databases with Java Database Connectivity (JDBC) interfaces, such as IBM DB2® Universal Database™ and databases from Oracle and Sybase.

Investment protection

Host Publisher can help your business reduce costs and minimize complexity and risks associated with exploiting Internet technologies. Create new composite applications that mine information from various data sources—without modifying your back-end systems. Scalability, high availability and reliable security—combined with support for a wide range of back-end applications—make Host Publisher an easy, cost-effective way to extend your business-critical applications to the Internet.

Build and deploy Web self-service applications

With Host Publisher, you can provide important information directly to users, reduce the expense of call centers and improve customer service. Simply build and deploy Web self-service applications to provide host access to virtually any user with a standard Web browser—one of the most user-friendly vehicles for users who are unfamiliar with traditional *green screens*.

Integration of back-end systems is performed on the Host Publisher Server; then HTML is delivered to the end user's Web browser. Easy-to-use GUIs allow Web designers to create and manage new composite applications, which combine multiple back-end data sources into a single Web page. Task-oriented prompts guide the designer through the creation process—recording host and database interactions, identifying desired data and labeling selected data for retrieval. When the Web page is completed, it is published to the Host Publisher Server for production access by users.

Scalability and high availability are critical to Web-to-host Internet deployment. Host Publisher includes SecureWay Network Dispatcher, enabling you to spread the load of user requests across a pool of Host Publisher Servers. And because Host Publisher runs on different operating system platforms, you have the scalability you need to move to more powerful platforms as demand increases.

Host Publisher Studio

Host Publisher Studio automatically generates Integration Objects, reusable beans for Java applications which encapsulate interactions and data retrieval. Integration Objects are used in fully customizable HTML pages and can be reused by other Java application programs created outside of Host Publisher.

Host Publisher Studio generates fully customizable HTML output with imbedded Java Server Page (JSP) tags. Point-and-click features allow Web administrators to map specific fields on a Web page using the HTML tags to specific fields on the host emulation screen or database table. This bi-directional implementation allows information to be updated from the Web interface, making it simple to connect users to back-end systems across the enterprise. You can also enhance the generated the HTML with your favorite Web authoring tool, such as NetObjects Fusion™ or Microsoft® FrontPage®, to meet your particular style and image requirements.

Host Publisher Studio runs on Windows NT®, Windows® 95 and Windows 98 operating systems.

Host Publisher Server

Host Publisher Server includes the IBM WebSphere™ Application Server, Standard Edition and other runtime components, such as connection management, license monitoring, runtime administration, and log and trace management.

Host Publisher utilizes the WebSphere Application Server to support the runtime environment for applications utilizing Integration Objects created by Host Publisher Studio. Integration with WebSphere Application Server provides Host Publisher applications with access to IBM connectors, including IBM MQSeries®. You can also reuse Integration Objects within new, WebSphere-based applications or use WebSphere software and your favorite Java interactive development environment (IDE)—such as IBM VisualAge® for Java—to add new business logic to Host Publisher implementations. While Host Publisher provides a runtime version of WebSphere Application Server, if you need or already use the advanced features of IBM WebSphere, Advanced Edition or IBM WebSphere, Enterprise Edition, you can use those products to support the Host Publisher runtime environment.

Host Publisher Server offers enterprise-class performance, scalability and availability through several key features, including object chaining, connection pooling, load balancing and failover support. Object chaining improves performance and flexibility by breaking complex tasks into manageable subtasks. These reusable objects can be chained to provide the most efficient flow through a complex application or used by other applications requiring the same subtask. Connection pools, which are defined in the Host Publisher Studio, eliminate the overhead of establishing, connecting and disconnecting separate connections for each host request.

Host Publisher Server runs on IBM OS/390®, IBM AIX®, Windows NT and Sun Solaris™ operating environments, allowing applications created with the common Host Publisher Studio to run unchanged in all environments.

For more information

To learn more about IBM Host Publisher, contact your IBM Business Partner or visit our Web site at:
www.ibm.com/software/network/hostpublisher

Host Publisher memory and software requirements at a glance

Memory

Host Publisher Studio runs on Windows NT, Version 4 or later, Windows 95 and Windows 98 and requires at least an Intel® Pentium® 166 processor, 128MB RAM and 90MB free disk space.

Host Publisher Server runs on several platforms. Memory requirements for the various platforms are listed below. All platforms require a machine with at least 128MB RAM; we recommend using a machine with at least 256MB RAM.

- Windows NT, Version 4 requires Service Pack 4 or later, running on a machine with at least 128MB RAM
- AIX, Version 4.2.1 or AIX, Version 4.3.2, running on a machine with at least 128MB RAM
- OS/390 Version 2 Release 5, 6 or 7 requires WebSphere Application Server, Standard Edition, Version 1.1, running on a machine with at least 256MB RAM
- Solaris operating environment, Version 2.6, with the Native Threads package, running on a machine with at least 128MB RAM

Host Publisher features at a glance

Back-end data sources

- Support applications written for 3270, 5250, VT52, VT100, VT220, Java classes and JDBC-compliant databases

Performance and scalability

- Load balancing and failover provided by IBM SecureWay Network Dispatcher, which runs on AIX, Windows NT and Solaris operating environments
- Host Publisher applications run unchanged on any supported server platform allowing you to move your application to a higher-capacity platform as demand increases
- Pages are precompiled into Java servlets and rerun anytime a user requests the same Web page
- Connection pools improve response time during runtime through connected, logged-on and ready connections
- Object chaining provides greater flexibility and performance

Compatibility and usability

- Leverage and integrate with IBM WebSphere Application Server, Standard Edition
- Compatible with other IBM connectors, such as MQSeries
- Create HTML pages which can be enhanced using industry-standard HTML editors
- Generate reusable Integration Objects, which can be used by Host Publisher applications and standard Java IDEs
- Import Java classes created outside Host Publisher into Host Publisher applications
- Encapsulate the interaction and data retrieval with host applications, using GUI point-and-click customization tools

Security

- 40- and 128-bit data encryption (RC/2, RC/4, DES and Triple DES)
- SSL 3.0 support (X.509 certificate)
- Existing application security is leveraged in data center

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