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IBM WebSphere Host Access Transformation Services V5 for zSeries — A quick and easy way to help improve the productivity of your host applications

Overview

IBM WebSphere® Host Access Transformation Services V5 for zSeries® (HATS) gives you the tools you need to help you quickly and easily extend your legacy applications to business partners, customers, and employees. HATS makes your 3270 and 5250 applications available as HTML through the most popular Web browsers, while converting your host screens to a Web look and feel. HATS can also make it easy to improve the workflow and navigation of your host applications without any access or modification to source code.

The HATS rules-based transformation engine can make it possible to extend your host applications to the Web within hours of installing the software. HATS is a zero-footprint, zero-download Web-to-host solution — the only software needed on the client is a Web browser.

The power of HATS lies in its ability to accurately recognize the components of host screens and transform them in real time to a Web interface according to a set of predefined rules. It is easy to modify the rules according to the specific needs of your application. HATS can add a variety of elements to your host screens, such as drop down lists, hot links, tables, buttons, valid value lists, tabbed folders, and graphs. HATS can also add HTML elements such as logos, graphics, backgrounds, and Web links.

HATS has macro support that allows you to provide programmed navigation through multiple legacy screens to help improve the productivity and ease of use of your host applications. Examples of

productivity improvements include skipping and combining screens, prefilling text entry fields, and storing and retrieving data in global variables. HATS can provide such programmed access to a single host application, or can integrate screens from multiple host applications into a single Web interface. HATS can also use macros created in IBM WebSphere Host On-Demand or IBM WebSphere Host Publisher.

The HATS Studio is fully integrated within the Eclipse-based IBM WebSphere Studio. It offers an intuitive interface for customizing the rules for transformation of host screens. The HATS applications are deployed to WebSphere Application Server for zSeries, and take advantage of the extensive security and reliability features of that platform.

New in V5:

- Integrates multiple host applications into a single Web interface

- Allows for automated migration from Host Publisher V4 projects

- Provides programmed access to host transactions through standard Web services interfaces

- Includes support for VT business objects

- Provides added support for customization of default rules

Key prerequisites

Refer to the **Hardware requirements** and **Software requirements** sections for details and visit:

> **http://www.ibm.com/software /webservers/hats**

Planned availability date

January 30, 2004

Description

WebSphere Host Access Transformation Services V5 for zSeries

The rules-based implementation of HATS can make it possible to extend virtually any 3270 or 5250 application to the Web within a single day of installing the software. The HATS rules define how the various host components are to be transformed and represented as HTML. For example, the rules define whether selection lists should be represented as hot links, buttons, drop down menus, radio buttons, or a table. The HATS rules are applied on-the-fly to host screens to generate the corresponding Web pages for end users. These rules can eliminate the need to customize individual host screens and significantly reduce the time to market for new Web-to-host projects. Virtually any host screens can be rendered according to HATS′ default rules, or can be partially or fully customized according to the needs of the specific application.

HATS provides the flexibility to assign different rule sets to different end user communities. For example, you can give a single host application a variety of looks and workflows that are appropriate for different end user groups. Alternatively, you can use a single rule set on different applications, which will enable you to reuse your work across the various host applications in your organization.

Support for WebSphere Portal running on WebSphere Application Server on the zSeries platform will be through a provided iFrame portlet. HATS works with IBM Tivoli Access Manager and third-party products to provide support for single sign-on.

HATS provides the ability to create connection pools, which can be used at run time to cache connected, logged-on, and ready host connections. A predefined number of connections can remain active in the pool, supporting requests from any user. This can help eliminate the overhead of establishing a connection, logging on, and disconnecting for each host request. You can define the minimum and maximum number of connections in the pool, as well as determine whether HATS should wait for an available connection or create a new, non-pooled connection if all predefined connections are in use.

HATS supports a broad range of security features, in addition to leveraging the security provided by WebSphere Application Server. Secure Sockets Layer (SSL) and Secure HTTP (HTTPs) provide security between the host application, the mid-tier server, and the end user. HATS will appear as a typical user to your host applications, allowing you to continue to take advantage of existing access security systems, such as IBM Resource Access Control Facility (RACF®).

Local print support is an important capability when extending legacy applications to new users. HATS provides a user-friendly means of delivering this support by converting host print output into industry-standard PDF format. The resultant PDF file is sent to the end user′s browser, where it can be printed locally or saved for later use.

HATS offers native keyboard support to allow users to continue to use the keyboard functionality to which they have become accustomed. Although running in a browser environment, HATS is able to provide direct keyboard support for functions employed by the host application, such as PF keys, enter keys, clear keys, and system-request keys.

HATS Studio is fully integrated within the Eclipse-based IBM WebSphere Studio. The Eclipse platform is an industry-standard application development environment, providing the benefits of a common framework and reusable skill set for development of Web-based applications. Integration with WebSphere Studio provides a common tooling family for all your e-business needs. WebSphere Studio application development features provide a variety of additional benefits, such as team development facilities that enable code management across multiple developers.

HATS integration with WebSphere Studio provides a flexible and extensible environment in which to integrate host applications with Java™-based applications. Screens and data from multiple host sources can be combined with Java-based applications to create new WebSphere applications. Transactions with host systems can be encapsulated into reusable business objects, such as Web services, Java beans, or Enterprise Java Beans. HATS and WebSphere Studio wizards can be used to create Web pages that call these new business objects. These Web pages can use traditional Model I, or the newer, open standard Struts standard for Model 2-based Web pages. WebSphere Studio wizards can also be used to create SQL queries and business objects (Web services, Java beans, or Enterprise Java Beans) to execute these SQL queries.

HATS, in conjunction with WebSphere Studio, simplifies the creation of standard Web services interfaces to provide access to host applications. Web services protocols, such as Simple Object Access Protocol (SOAP) and Web Services Description Language (WSDL), are an efficient and reusable means of providing standardized access to your host systems, helping you lower the cost of maintaining and deploying connectors to these systems.

The run-time components of HATS are generated by the HATS Studio and deployed to IBM WebSphere Application Server. The WebSphere platform provides support for the workload management features required for enterprise-class scalability and availability. Load balancing and fail-over support functions, such as vertical and horizontal cloning, are handled by the WebSphere Workload Manager.

Accessibility by people with disabilities

The following features support use by people with disabilities:

- Interfaces commonly used by screen readers

- Can be operated using only the keyboard

- Allows the user to request more time to complete timed responses

- Communicates all information independently of color

- Provides documentation in an accessible format

- Requires minimal reach and manual dexterity

- Supports the attachment of alternative input and output devices

Section 508 of the U.S. Rehabilitation Act

WebSphere Host Access Transformation Services V5 for zSeries is capable as of January 30, 2004, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Trademarks

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Java is a trademark of Sun Microsystems, Inc.

Other company, product, and service names may be trademarks or service marks of others.

Education support

The following course is available:

Course title	Course number
IBM WebSphere® Host Access Transformation Services Introduction	SW912

Visit the following Web site for additional information:

http://www-3.ibm.com/services/learning/

Also refer to the IBM Learning Services Home Page for available courses in your country:

http://www-3.ibm.com/services/learning/

Call IBM Education and Training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering information

Product information is available through the Offering Information Web site at:

http://www.ibm.com/common/ssi

Publications

No publications are shipped with this program. The appropriate documents are included on the CD-ROMs shipped with the program and may be printed by the user.

The Publications Notification System (PNS) enables subscribers to set up profiles of interest by order number or product number. PNS subscribers automatically receive notifications by e-mail of all new publications defined in their profiles. These may then be ordered or downloaded via the Publications Center.

Technical information

Specified operating environment

Hardware requirements

Server Runtime

- A zSeries® processor running WebSphere Application Server V5 for z/OS®

Host Access Transformation ─ Studio

- Pentium™ II or higher processor, 500 MHz or faster (Pentium III 1 GHz recommended)

- A minimum of 384 MB RAM (512 MB recommended)

- 200 MB DASD (1 GB recommended)

- A high-resolution graphic display with a minimum screen resolution of 1024 x 768

Software requirements

Server Runtime

- HATS generated applications in this offering run on WebSphere Application Server V5 for z/OS with the latest PTFs and, therefore, inherit the software requirements of the application server.

- Each HATS application deployed to WebSphere Application Sever for z/OS V5 requires a minimum of 40 MB of disk space.

Host Access Transformation Services ─ Studio

- One of the following operating systems:

  - Windows™ 2000 Professional (Server or Advanced Server) with SP3

  - Windows XP Professional with SP1a

- At least one of the following:

  - WebSphere Studio Site Developer V5.1

  - WebSphere Studio Application Developer V5.1

  - WebSphere Developer Studio Client for iSeries™ V5.1

  - WebSphere Developer Studio Client Advanced for iSeries V5.1

  - WebSphere Application Server Express V5.0.2

- Supported browsers:

  - Windows

    -- Netscape 6.2 and higher
    -- Internet Explorer 5.5 and higher
    -- Mozilla 1.2.1 and higher
    -- Opera 5.0 and higher

  - AIX®

    -- Netscape 7.0 and higher
    -- Mozilla 1.2.1 and higher

  - Solaris

    -- Netscape 7.0 and higher
    -- Mozilla 1.2.1 and higher

  - Linux

    -- Opera 5.0 and higher
    -- Konqueror 3.1 and higher
    -- Mozilla 1.2.1 and higher

  - Mac

    -- Safari 1.0 and higher
    -- Netscape 7.0 and higher
    -- Internet Explorer 5.2.3 and higher

Limitations

- BIDI support is not available with Netscape browsers. Internet Explorer V5.5 and higher is required.

Planning information

Direct customer support: Direct customer support is provided by IBM Operational Support Services — SoftwareXcel. This fee service enhances customers' productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services — SoftwareXcel will help answer questions pertaining to usage, and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, go to:

http://www.ibm.com/support

or contact your IBM representative for additional assistance.

Packaging

Program package:

- WebSphere Host Access Transformation Services V5.0 CD
- WebSphere Host Access Transformation Services V5.0 Runtime Enablement CD

- WebSphere Host Access Transformation Services V5 for zSeries License Information
- IBM International Program License Agreement

Security, auditability, and control

WebSphere Host Access Transformation Services V5 for zSeries uses the security and auditability features of the host operating system. In addition, HATS uses Secure HTTP (HTTPs) and Secure Sockets Layer (SSL) to provide a secure connection between the client and the host system.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

WebSphere Host Access Transformation Services V5 for zSeries

WebSphere Host Access Transformation Services V5 for zSeries is priced per User (Registered and Concurrent). It is available in units of 1.

Software Subscription and Support

The annual price of Software Subscription and Support for WebSphere Host Access Transformation Services V5 for zSeries (5655-L54) depends on the number of user licenses purchased.

Basic license

To order, specify the program number and the one-time charge (OTC) feature number. Also specify the feature number of the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Description	Program number	Entitlement entity MMID
WebSphere Host Access Transformation Services V5 for zSeries Program Package — Internet	5655-L53	S010TFG
WebSphere Host Access Transformation Services V5 for zSeries Program Package — Intranet	5655-L53	S010TFH

Description	Program number	One-time charge feature number	Medium feature number	Medium
WebSphere Host Access Transformation Services V5 for zSeries Program Package — Internet — per Concurrent User	5655-L53	0001	5809	CD-ROM
WebSphere Host Access Transformation Services V5 for zSeries Program Package — Intranet — per Registered User	5655-L53	0002	5809	CD-ROM

To order the SW Subscription and Annual Support, specify program number 5655-L54 and the feature number from the table below. The quantity of SW Subscription and Support licenses must be equal to the number of one-time charge licenses ordered.

Description	Program number	Entitlement entity MMID
WebSphere Host Access Transformation Services V5 for zSeries ─ Internet Software Subscription & Support	5655-L54	S010TFJ
WebSphere Host Access Transformation Services V5 for zSeries ─ Intranet Software Subscription & Support	5655-L54	S010TFK

Support for WebSphere Host Access Transformation Services V5 for zSeries	Subscription/ Support for program number	Order under program number 5655-L54 standard support annual charge feature number
WebSphere Host Access Transformation Services V5 for zSeries Software Subscription & Support Supply Feature	5655-L53	6000
WebSphere Host Access Transformation Services V5 for zSeries ─ Intranet Software Subscription & Support per Registered User	5655-L53	0002
WebSphere Host Access Transformation Services V5 for zSeries ─ Intranet Decline Software Subscription & Support	5655-L53	0003
WebSphere Host Access Transformation Services V5 for zSeries ─ Internet Software Subscription & Support ─ per Concurrent User	5655-L53	0005
WebSphere Host Access Transformation Services V5 for zSeries ─ Internet Decline Software Subscription & Support	5655-L53	0006

Customization options: No customization options are available.

Media updates

Media updates are not automatically shipped. They are available through customer order only.

Terms and conditions

Licensing: IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

This product is licensed under the IBM Program License Agreement (IPLA), the associated Agreement for Acquisition of Support, and the Addendum for Support (Z125-6312), which provides for support with ongoing access to releases and versions of the program. This program has a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. S/390® and zSeries IBM Operational Support Services — SoftwareXcel is an option for those customers who desire added services.

Limited warranty applies: Yes

Warranty: This program has warranty for a minimum of one year from acquisition from IBM or authorized Business Partner. The warranty provided to the customer, for at least one year from acquisition, is access to databases (read Web sites) for program information and FAQs, including any known fixes to defects, which customers can download or obtain otherwise and install at their leisure.

Program technical support: This zSeries program is sold as a one-time charge and has a separate Support and Subscription Offering. Technical support of this program product will be available for a minimum of three years from the general availability date for customers who have purchased the Support and Subscription Offering. Purchasing both Subscription and Support and S/390 and IBM @server zSeries IBM Operational Support Services — SoftwareXcel will ensure total program technical support coverage. Without the Support/Subscription offering, the only support available is self help from the Internet.

Program support: Enhanced support, called Subscription and Support, includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. The customer will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee: If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date to the party (either IBM or its reseller) from whom you acquired it for a refund. This applies only to your first acquisition of the program.

Copy and use on home/portable computer: No

Volume orders (IVO): No

Passport Advantage® applies: No

Usage restriction: Yes

In addition to the terms of the IPLA, WebSphere Host Access Transformation Services V5 for zSeries (the Program) includes unique terms and conditions. The specific terms are included in the License Information (LI) document that is associated with this product.

On or near the planned availability date of the product, the LI document will be available for review on the IBM Software License Agreement Web site:

http://www.ibm.com/software/sla/sladb.nsf

Software Maintenance applies: No

For operating system software, the revised IBM Operational Support Services — SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering. This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised SoftwareXcel offering, refer to our Web site at:

http://www.ibm.com/services/sl/products

For additional information on the revised IBM Operational Support Services, refer to Services Announcement 601-023, dated July 10, 2001.

IBM Operational Support Services — SoftwareXcel: Yes

AIX/UNIX® Upgrade Protection applies: No

Entitled Upgrade for current AIX/UNIX Upgrade Protection licensees: No

iSeries Software Subscription applies: No

Variable charges apply: No

Educational allowance available: Yes, a 15% education allowance applies to qualified education institution customers.

Prices

WebSphere Host Access Transformation Services V5 for zSeries

Description	Program number	One-time charge feature number	One-time charge
WebSphere Host Access Transformation Services V5 for zSeries Program Package — Internet — per Concurrent User	5655-L53	0001	$268
WebSphere Host Access Transformation Services V5 for zSeries Program Package — Intranet — per Registered User	5655-L53	0002	180

Software Subscription and Annual Support

Description	Program number	Annual charge feature number	Annual charge
WebSphere Host Access Transformation Services V5 for zSeries Software Subscription & Support Supply Feature	5655-L54	6000	NC
WebSphere Host Access Transformation Services V5 for zSeries — Intranet Software Subscription & Support — per Registered User	5655-L54	0002	$45
WebSphere Host Access Transformation Services V5 for zSeries Intranet Decline Software Subscription & Support	5655-L54	0003	0
WebSphere Host Access Transformation Services V5 for zSeries — Internet Software Subscription & Support — per Concurrent User	5655-L54	0005	67
WebSphere Host Access Transformation Services V5 for zSeries — Internet Decline Software Subscription & Support	5655-L54	0006	0

Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Our offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit the Web at:

http://www.ibm.com/financing

IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

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To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
Internet: ibm_direct@vnet.ibm.com
Mail: The Americas Call Centers
           Dept. LE001
           P.O. Box 2690
           Atlanta, GA 30301-2690

Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

Trademarks

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WebSphere, z/OS, zSeries, AIX, S/390, and Passport Advantage are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
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