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IBM WebSphere Host Access Transformation Services V5 for Multiplatforms: The quickest, easiest way to improve host application productivity

Overview

IBM WebSphere® Host Access Transformation Services (HATS) gives you all 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. With HATS it is 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. With HATS, you 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. You 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. HATS enables such programmed access to a single host application, or can integrate screens from multiple host applications into a single Web interface. You can also use macros created in IBM WebSphere Host On-Demand or IBM WebSphere Host Publisher.

The HATS Studio is fully integrated with the Eclipse-based IBM WebSphere Studio. It offers an intuitive interface for customizing the rules for transformation of host screens. The HATS' applications can be deployed to both WebSphere Application Server and WebSphere Portal, and can take advantage of the extensive security and reliability features found in both platforms.

New in V5:

- Integrates multiple host applications into a single Web interface

- Provides enhanced WebSphere Portal integration and support

- 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**

At a glance

HATS V5:

- Dynamically transforms 3270 and 5250 screens to HTML

- Migrates host applications to the Web within hours, without access or modification to source code

- Improves host application workflow and ease of use in a zero-footprint solution

- Integrates with WebSphere Studio, WebSphere Application Server, and WebSphere Portal

- Supports single sign-on using Tivoli® Access Manager

- Creates Web services from programmed navigation of host applications

Planned availability dates

- December 19, 2003: Electronic software delivery

- January 30, 2004: Media pack

Description

WebSphere Host Access Transformation Services V5

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 help significantly reduce the time to market for new Web-to-host projects. Any host screen can be rendered according to the HATS' default values, 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.

WebSphere Portal provides a personalized, single point of access to enterprise information. HATS is able to run directly in the WebSphere Portal environment and to take advantage of integration with other portlets in the portal. Features such as Click-to-Action and Cooperative Portlets allow for higher levels of productivity by sharing data between portlets. Credential Vault and Web Express Logon support can allow users to simplify the process of signing on and providing credentials to multiple applications. HATS works with IBM Tivoli Access Manager or other third-party products to provide support for Web Express Logon.

Note: Support for WebSphere Portal running on WebSphere Application Server on the IBM @server zSeries® platform will be through a provided iFrame portlet. The iFrame portlet will not support the portal integration features listed above.

HATS provides the ability to create connection pools, which can be used at runtime 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 and WebSphere Portal. 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 provides 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 integrates with WebSphere Studio which 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 runtime components of HATS are generated by the HATS Studio and deployed to IBM WebSphere Application Server or WebSphere Portal. 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.

Note: Licenses of WebSphere Application Server, limited to use with HATS, are included in the HATS V5 product.

Accessibility 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

Product positioning

HATS is the newest member of IBM's market-leading Host Integration family of host access and Web-to-host solutions.
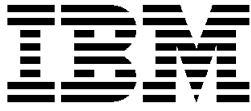
Within the Host Integration Solution:

- Host On-Demand delivers the Java emulator solution providing desktop emulation on demand. Traditional emulator functionality is delivered via Java applets that are downloaded as needed and optionally cached on the end-user desktop. Host On-Demand is served as needed from a central Web server which can eliminate the time and expense associated with installing and maintaining software on end users' desktops.

- HATS delivers a near load-and-go solution for rejuvenating legacy application screens that can improve end-user ease-of-use and productivity. The existing end-user flow through legacy applications is preserved, but has a rejuvenated Web look and feel. Delivery of HTML to the desktop provides a zero-footprint client solution with the broadest possible user reach.

Trademarks

Education support

The following educational offerings are available as listed below:

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

IBM Global Services, IT Education Services, provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM Learning Services Web sites:

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

Refer to the IBM Learning Services Web site for information on course locations and availability dates.

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

Offering information

Product information will be available through the Offering Information Web site at:

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

And, through the Passport Advantage® Web site at:

http://www.ibm.com/software/passportadvantage

Publications

No publications are shipped with this product.

The IBM Publications Center:

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card or customer number. A large number of publications are available online in various file formats, and they can all be downloaded free of charge.

The IBM Publications Notification System

http://service5.boulder.ibm.com/pnsrege.nsf/ messages/welcome

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

Technical information

Specified operating environment

Hardware requirements

Studio requirements

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

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

- 200 MB DASD (1 GB recommended)

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

Software requirements

Studio requirements

- Windows™ 2000 Professional (Server or Advanced Server) with SP3 or Windows XP Professional with SP1a

- One of the following WebSphere Studio installations:

  - WebSphere Studio Site Developer V5.1

  - WebSphere Studio Application Developer V5.1

  - WebSphere Development Studio Client for iSeries™, V5.1

  - WebSphere Development Studio Client Advanced Edition for iSeries, V5.1

  - WebSphere Application Server Express V5.0.2

Server runtime requirements

HATS generated applications run on Windows NT™, Windows 2000, Windows 2003, AIX®, OS/400®, Solaris, OS/390®, z/OS®, Linux for Intel™, and Linux for zSeries®. HATS applications are deployed to a WebSphere Application Server and, therefore, inherit the software requirements of the WebSphere Application Server.

Each HATS application that you deploy requires additional disk space. The minimum disk space required for each HATS application is:

- Windows NT, Windows 2000: 40 MB
- Windows 2003 Server: 40 MB
- AIX: 32 MB
- Solaris: 21 MB
- OS/400: 21 MB
- OS/390 and z/OS: 40 MB
- Linux for Intel: 40 MB
- Linux for zSeries: 40 MB

One of the following WebSphere Application Servers:

- WebSphere Application Server V5.0 with latest PTFs

- WebSphere Application Server Network Deployment V5.00 with latest PTFs

- WebSphere Application Server for iSeries V5.0 with latest PTFs

- WebSphere Application Server Network Deployment for iSeries V5.0 with latest PTFs

- WebSphere Application Server Express V5.0 with latest PTFs

- WebSphere Application Server Express for iSeries V5.0 with latest PTFs

- WebSphere Application Server for z/OS and OS/390 V5.0 with latest PTFs

Supported browsers:

- Windows requires: Netscape 6.2 and later, Internet Explorer 5.5 and later, Mozilla 1.2.1 and later, Opera 5.0 and later

- AIX requires: Netscape 7.0 and later, Mozilla 1.2.1 and later

- Solaris requires: Netscape 7.0 and later, Mozilla 1.2.1 and later

- Linux requires: Opera 5.0 and later, Konqueror 3.1 and later, Mozilla 1.2.1 and later

- Mac requires: Safari 1.0 and later, Internet Explorer V5.5 and later, Netscape 7.0 or later

Others

- 5250 Print support requires IBM iSeries Access for Web V5.2 (Note: this is available as part of the iSeries Access Family V5.2).

- Portal development support requires IBM WebSphere Portal Toolkit V5.0 with latest service level.

- WebSphere Portal V5.0 is required for deployment of HATS V5 portlets.

Limitations

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

Planning information

Packaging

- WebSphere HATS V5.0 CD

- WebSphere HATS V5.0 Runtime Enablement CD

- WebSphere Application Server V5.0 Network Deployment CD (Distributed and iSeries)

- HATS V5 License Information

Security, auditability, and control

HATS uses the security and auditability features of the systems.

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

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product information

Licensed function title	Product group	Product category
IBM Host Access Transformation Services for Internet	App Integration Middleware Other	WebSphere
IBM Host Access Transformation Services for Intranet	App Integration Middleware Other	WebSphere

WebSphere Host Access Transformation Services V5 is a stand-alone product with one charge unit: user (intranet or Internet). It is available in units of 1.

Passport Advantage licensing

IBM Host Access Transformation Services for Internet

Program name/ Description	Part number
HATS for Multi Internet Concurrent User(s) License SW Maintenance 12 Months	D52WALL
HATS for Multi Internet Concurrent User(s) SW Maintenance Reinstatement 12 Months	D52WBLL
HATS for Multi Internet Concurrent User(s) SW Maintenance Annual Renewal	E0109LL
HATS for Multi Internet ConcurUser(s) Trdup License & SW Maintenance 12 Months	D52WCLL

IBM Host Access Transformation Services for Intranet

Program name/ Description	Part number
HATS for Multi Intranet Registered User License SW Maintenance 12 Months	D53H4LL
HATS for Multi Intranet Registered User SW Maintenance Reinstatement 12 Months	D53H5LL
HATS for Multi Intranet Registered User SW Maintenance Annual Renewal	E016VLL
HATS V5.0 for Multi Intranet Reg User Trdup License SW Maintenance 12 Months	D53H6LL

Passport Advantage supply

Program name/ Description	Part number
HATS V5.0.0 FOR MULTI (SAME MEDIA PACK FOR BOTH INTRANET/INTERNET)	
Media Pack Multilingual (French, Russian, Korean, Chinese — Simplified, Spanish, Norwegian Bokmal, Brazilian Portuguese, German, Japanese, Chinese — Traditional, English U.S., Norwegian Nynorsk, Turkish, Dutch, Slovakian, Italian, Finnish, Polish) Windows 2000, Windows XP CD-ROM Digital Disk — ISO 9660 Standard V5.0.0	BM028ML

Passport Advantage customer: Media pack entitlement details

Customers with active Maintenance or Subscription for the products listed below are entitled to receive the corresponding media pack.

HATS for Multi V5.0.0

Entitled maintenance offerings description (Sub-Id)	Media packs description	Part number
WHATSRTISB01, WHATSVRTSB01	HATS for Multi Multilingual (French, Russian, Korean, Chinese — Simplified, Spanish, Norwegian Bokmal, Brazilian Portuguese, German, Japanese, Chinese — Traditional, English U.S., Norwegian Nynorsk, Turkish, Dutch, Slovakian, Italian, Finnish, Polish) Windows 2000, Windows XP CD-ROM Digital Disk — ISO 9660 Standard	BM028ML

Terms and conditions

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

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

License Information form number: L-JCOS-5S5SD8

Limited warranty applies: Yes

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

Product name	Copy and use on home/ portable computer?
Host Access Transformation Services for Multi	No

Volume Orders (IVO): No

Passport Advantage applies

Yes, and through the Passport Advantage Web site at:

http://www.ibm.com/software/passportadvantage

Usage Restriction: Yes

For Usage Requirements, refer to the License which accompanies the product. Specifically, the Program-unique Terms (PUTs) part of the license records, the restrictions on the use of the product, and/or the software associated with the product.

Software Maintenance applies: Yes

Software Maintenance, previously referred to as Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the product announced in this letter is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice and/or electronic access into the IBM support organizations.

IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option that is available.

While your Software Maintenance is in effect: IBM provides you assistance for your (1) routine, short duration installation and usage (how-to) questions; and (2) code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your *IBM Software Support Guide* at:

http://techsupport.services.ibm.com/guides/ handbook.html

Software Maintenance does not include assistance for (1) the design and development of applications, (2) your use of programs in other than their specified operating environment or (3) failures caused by products for which IBM is not responsible under this agreement.

For more information about the Passport Advantage Agreement, refer to the IBM International Passport Advantage Agreement Software Announcement 201-202, dated July 10, 2001, or visit the Passport Advantage Web site at:

http://www.ibm.com/software/passportadvantage

IBM Operational Support Services — Support Line: No

Other support: Passport Advantage

iSeries Software Subscription applies: No

Educational allowance available: Not applicable

Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner. For additional information about the Passport Advantage offering, visit the following Web site:

http://www.ibm.com/software/passportadvantage

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM Business Partner or IBM representative, call 1 800-IBM-4YOU (426-4968).

Global Financing

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http://www.ibm.com/financing

Use the "Select a Country" Menu, to find a contact in your location (or country).

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Windows and Windows NT are trademarks of Microsoft Corporation.
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