



IBM Rational Host Access Transformation Services for Multiplatforms and 5250 Applications V9.5 offers currency with the latest IDEs, runtimes, and browsers

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At a glance

New in Rational[®] Host Access Transformation Services (HATS) V9.5

- Support for Versions 9.5 of the IBM[®] Integrated Development Environments (IDEs), which includes:
 - IBM Rational Application Developer for WebSphere[®] Software
 - Rational Developer for i
 - Rational Business Developer
 - Rational Developer for the Enterprise
- Support for IBM Bluemix[™] Server
- TLS 1.1 and 1.2 connectivity
- Support for the latest runtimes, which include:
 - IBM WebSphere Application Server Liberty Core V8.5.5.7
 - WebSphere Application Server V8.5.5.7
 - WebSphere Portal Server
 - Geronimo 3.0.1
 - WebLogic 12c
 - WebSphere Portal Server V8.0.0.1
- HATS toolkit usability enhancements

Overview

With Rational Host Access Transformation Services (HATS), you can rapidly transform the user experience of your 3270 applications (run on IBM z Systems[™]) and your 5250 applications (run on IBM i) without modifying those applications. By using the HATS rules-based transformation technology, the screens of your applications can be rendered with intuitive user interfaces. You can further improve the appearance, usability, and navigation of your applications by creating screen transformations and skip-screen macros.

HATS web applications are developed to run in a web application server runtime, and your users can access the applications with standard web browsers, which include mobile device browsers. HATS rich client applications are developed to run in an Eclipse, rich-client platform implementation to provide native, client applications that are targeted for a user's desktop.

HATS can also be used to transform and expand the connectivity of your terminal applications by extending the proven business logic as standard Web services. These services are reusable assets that can be deployed as reusable components and can be integrated into new internal applications or applications outside your enterprise.

Key prerequisites

Supports Microsoft™ Windows™ operating systems.

For details, refer to the [Hardware requirements](#) and the [Software requirements](#) sections.

Planned availability date

November 20, 2015

Description

Rational HATS consists of two components:

- The toolkit
- The runtime

The Rational HATS Toolkit is a set of plug-ins for the Eclipse-based IBM IDEs. The HATS Toolkit enables you to develop new applications that generate GUIs for your 3270 and 5250 applications. Develop your new applications iteratively to preview and save each change you make. Over time, or as quickly as desired, your HATS applications can be streamlined. This makes them easier to use. Your new applications can be accessed from a browser, portlet, rich client, or a mobile device.

With the HATS toolkit, you can create a GUI that is suited to your business needs and standards. Hide unnecessary information, organize data into tables, or display only required input fields. You can provide a drop-down list of valid values for an input field, change the layout and the contents of the user interface, and provide navigation buttons.

The HATS runtime is included in the HATS application, which is deployed to a production environment, such as WebSphere Application Server, WebSphere Portal Server, or the Eclipse Rich Client Platform. Users interact with the HATS application through the HATS GUI and data is sent back and forth between the user and the host application.

Regardless of the kind of HATS application that you create, you can decide that basic customization is enough. But with HATS, you can do much more. For example:

- Use HATS macro support to provide streamlined navigation through multiple host screens.
- Take your end-users directly to the first screen that you want them to use to bypass other screens.
- Use macros or the screen combination function to combine data from several host screens into one HATS GUI panel.
- Use business logic and global variables to integrate your host applications with other back-end systems in your enterprise, and with your business partners' systems

From HATS macros, you can generate HATS Integration Objects, which are Java™ beans that encapsulate interactions with a host application, and use them to

create web pages and Web services. You can also use HATS Integration Objects in Enterprise JavaBeans™.

New in HATS V9.5

- Support for the latest development environments. The HATS V9.5 Toolkit requires the latest IDEs, such as Rational Application Developer for WebSphere Software V9.5. Refer to the Software requirements for more information.
- Support for IBM Bluemix Server. With HATS V9.5, you can create, run, and debug HATS applications on the Bluemix Server. This enables easy integration of HATS applications into a hosted cloud environment on Bluemix.
- TLS 1.1 and 1.2 connectivity. HATS 9.5 includes the ability to choose the Java Secure Socket Extensions (JSSE) for secure connections. This will result in HATS trying the highest level of secure connection first (TLS 1.2, then TLS 1.1, and then TLS 1.0 connectivity).
- HATS Toolkit usability enhancements. With the HATS Visual Macro Editor, you can now add Trace actions, custom screen recognition, conditional screen descriptors, and set the recognition limit and pause time.
- Other enhancements include the ability to add custom screen recognition classes through the user interface, the inclusion of cursor positioning in screen captures, the ability to set string attributes when creating a screen customization, and showing if the "usellogic" attribute is enabled.
- Support for Dojo Asynchronous Module Definition (AMD) format. HATS projects are now compliant for Dojo AMD..
- Support for the latest browsers. This includes Google Chrome for both the HATS and WebFacing components. Refer to the Software prerequisites for more information.
- Support for the latest runtimes. New supported HATS runtime environments include WebSphere Application Server Liberty Core V8.5.5.7, WebSphere Application Server V8.5.5.7, WebSphere Portal Server V8.5, Geronimo 3.0.1, and WebLogic 12c. See [Software requirements](#) section for more information.

Withdrawn capabilities in this version

Capability	Rationale	Client recommendation
Java Visual Editor (JVE) (used to create and edit HATS Rich Client transformations)	The JVE has been removed from V9.5 IBM IDEs.	Use one of the available Open Source Software alternatives.
IBM Portlet API portlets	The IBM Portlet API has been removed from WebSphere Portal V8.5	Use JSR168/286 standard portlets for HATS projects. Migrate WebFacing portlet projects to HATS.

HATS 9.5 license information

The following text is taken from the HATS license agreement document included with your purchase. It is included here for your convenience and understanding of the terms and conditions around the use of the program. This text is not inclusive.

Rational HATS for Multiplatforms

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The following are Supporting Programs licensed with the Program:

IBM WebSphere Application Server Network Deployment 8.5

Program-unique terms

The Program consists of two components: the Host Access Transformation Services (HATS) Toolkit and the HATS Runtime. The HATS Toolkit is an Eclipse plug-in that is used to create HATS applications. The HATS Runtime is a set of Java classes that are included in the HATS applications created by the HATS Toolkit.

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- HATS Toolkit
- HATS Runtime when used in a non-production environment.

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IBM Rational HATS for 5250 Applications

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The following are Supporting Programs licensed with the Program:

IBM WebSphere Application Server - Express^(R) 8.5

Program-unique terms

The Program consists of two components: the Host Access Transformation Services (HATS) Toolkit and the HATS Runtime. The HATS Toolkit is an Eclipse plug-in that is used to create HATS applications. The HATS Runtime is a set of Java classes that are included in the HATS applications created by the HATS Toolkit.

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- HATS Toolkit
- HATS Runtime when used in a non-production environment.

A non-production environment means the Program can only be deployed as part of the Licensee's internal development and test environment for internal non-production activities, including but not limited to testing, performance tuning, fault diagnosis, internal benchmarking, staging, quality assurance activity and/or developing internally used additions or extensions to the Program using published application programming interfaces.

The Program may only be used to connect to IBM i 5250 applications.

Program number

Program number	VRM	Program name
5724-U67	9.5	IBM Rational Host Access Transformation Services for Multiplatforms
5724-U68	9.5	IBM Rational Host Access Transformation Services for 5250 Applications on i
5724-U68	9.5	IBM Rational Host Access Transformation Services for 5250 Applications on Multiplatforms

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage^(R) website

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

Publications

The IBM Publications Center portal is located at

<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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Services

Software Services

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To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Technical information

Specified operating environment

Hardware requirements

- Disk space: 500 MB - 1 GB DASD above the requisite software delivery platform. Additional disk space will be required for web or rich client application resources developed.
- Display resolution: 1024 x 768, 1280 x 1024 recommended.
- Memory: 3 GB RAM minimum. 4 GB RAM is recommended.
- Processor: 32-bit (x86) core2 duo (or equivalent). 64-bit (x64) core2 quad (or equivalent) or higher is recommended

Software requirements

Operating system considerations

- The HATS toolkit supports all Windows operating systems supported by the required development tools listed in the HATS Toolkit requirements section below.
- The HATS Web, Portlet, and WebFacing runtimes support all operating systems supported by the required application servers and portal servers.
- The HATS Rich client runtime supports all operating systems supported by the required platforms listed in the Eclipse runtime environment section.

HATS Toolkit requirements

One of the following development tools:

- Rational Application Developer for WebSphere Software V9.5
- Rational Business Developer V9.5
- Rational Software Architect for WebSphere Software V9.5
- Rational Developer for i V9.5

Notes

The minimum development tool features required in the installation of HATS toolkit are:

- Web development tools
- Plug-in development environment
- Tools for WebSphere Application Server V7.0, V8.0, and V8.5

Application servers

- WebSphere Application Server Network Deployment V7.0 and future modification levels and their fix packs
- WebSphere Application Server - Base V7.0 and future modification levels and their fix packs
- WebSphere Application Server Network Deployment V8.0 and future modification levels and their fix packs
- WebSphere Application Server for z/OS^(R) V7.0 and future modification levels and their fix packs
- WebSphere Application Server - Express V8.0 and future modification levels and their fix packs
- WebSphere Application Server - Base V8.0 and future modification levels and their fix packs
- WebSphere Application Server Network Deployment V8.5 and future mod levels and their fix packs
- WebSphere Application Server for z/OS V8.0 and future modification levels and their fix packs
- WebSphere Application Server - Base V8.5 and future modification levels and their fix packs
- WebSphere Application Server - Express V8.5 and future modification levels and their fix packs
- WebSphere Application Server Network Deployment V8.5.5 and future modification levels and their fix packs
- WebSphere Application Server - Base V8.5.5 and future modification levels and their fix packs
- WebSphere Application Server for z/OS V8.5 and future modification levels and their fix packs
- Oracle Weblogic server 12c (12.1.1) and future modification levels and their fix packs
- Geronimo 2.2.1 and future modification levels and fix packs
- WebSphere Application Server 8.5 Liberty Profile and future modification levels and fix packs
- IBM Bluemix Server
- IBM i V6.1.x Integrated Web Application Server for i and future fix packs (WebFacing runtime only)
- IBM i V7.1.x Integrated Web Application Server for i and future fix packs (WebFacing runtime only)

Notes

5250 print support requires one of the following, as appropriate:

- System i^(R) Access for Web 6.1 available as part of the System i Access Family
- IBM i Access for Web 7.1 available as part of the IBM i Access Family

Portal servers

- WebSphere Portal Server V8.5 and future modification levels and their fix packs
- WebSphere Portal Server V8.0 and future modification levels and their fix packs
- WebSphere Portal Server V7.0 and future modification levels and their fix packs

Eclipse runtime environment

- IBM Eclipse SDK V4.2 and future modification levels and their fix packs
- IBM Eclipse SDK V4.4 and future modification levels and their fix packs
- IBM Eclipse SDK V4.5 and future modification levels and their fix packs
- Lotus Notes^(R) V9.0.1 and future fix packs

- Lotus[®] Expeditor V6.2.3 and future fix packs

Installation

Capilano Components (IBM Installation Manager and IBM Packaging Utility) V1.8.3 and future fix packs, modification levels and their fix packs.

Web browsers

- Microsoft Internet Explorer 9.0 and future modification levels and fix packs
- Microsoft Internet Explorer 10.0 and future modification levels and fix packs
- Microsoft Internet Explorer 11.0 and future modification levels and fix packs
- Google Chrome 40 and future modification levels and fix packs
- Mozilla Firefox 38 and future modification levels and fix packs
- Apple Safari 5.0 and future modification levels and fix packs
- Apple Safari 8.0 and future modification levels and fix packs
- Apple Safari on iOS 6.0 and future modification levels and fix packs
- Apple Safari on iOS 7.0 and future modification levels and fix packs
- Apple Safari on iOS 8.0 and future modification levels and fix packs
- Android default browser 4.1 and future modification levels and fix packs

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language. Such information is provided subject to the following Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and, response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated, or misused, or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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Planning information

Packaging

Rational Host Access Transformation Services for Multiplatforms V9.5

Rational Host Access Transformation Services for 5250 Applications on i V9.5

Rational Host Access Transformation Services for 5250 Applications on Multiplatforms V9.5

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Ordering information

Product name	VRM	PID
IBM Rational Host Access Transformation Services for Multiplatforms	9.5	5724-U67
IBM Rational Host Access Transformation Services for 5250 Applications on i	9.5	5724-U68
IBM Rational Host Access Transformation Services for 5250 Applications on Multiplatforms	9.5	5724-U68

Passport Advantage

Charge metric

Program name	PID	Charge metric
IBM Rational Host Access Transformation Services for Multiplatforms	5724-U67	Authorized user
IBM Rational Host Access Transformation Services for Multiplatforms	5724-U67	Processor Value Unit
IBM Rational Host Access Transformation Services for 5250 Applications on i	5724-U68	Authorized user
IBM Rational Host Access Transformation Services for 5250 Applications on i	5724-U68	Processor Value Unit
IBM Rational Host Access Transformation Services for 5250 Applications on Multiplatforms	5724-U68	Authorized user
IBM Rational Host Access Transformation Services for 5250 Applications on Multiplatforms	5724-U68	Processor Value Unit

Authorized User

Authorized User is a unit of measure by which the Program can be licensed. An Authorized User is a unique person who is given access to the Program. The Program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the Program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User given access to the Program in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

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Processor Value Unit (PVU)

Processor Value Unit (PVU) is a unit of measure by which the Program can be licensed. The number of PVU entitlements required is based on the processor technology (defined at http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html) and the number of processors made available to the Program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.

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* An Activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes

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License Information number

Product name	VRM	LI number
IBM Rational Host Access Transformation Services for Multiplatforms	9.5	L-PSWN-A26JT2
IBM Rational Host Access Transformation Services for 5250 Applications on i	9.5	L-PSWN-A279F3
IBM Rational Host Access Transformation Services for 5250 Applications on Multiplatforms	9.5	L-PSWN-A279F3

The program's License Information will be available for review on the IBM Software License Agreement website

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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Volume orders (IVO)

No

Passport Advantage applies

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System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

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<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

Passport Advantage

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