



IBM Rational Host Access Transformation Services for Multiplatforms and 5250 Applications V8.0 offers richer user interfaces and flexible web services options with support for Dojo and REST

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At a glance

New in IBM® Rational® Host Access Transformation Services (HATS) V8.0

- HATS Dojo widgets, plus the ability to customize the user interface using the Dojo Toolkit and IBM extensions that are integrated with IBM Rational Developer offerings such as IBM Rational Application Developer for WebSphere® Software
- RESTful web services support
- JSR286 standard portlet support
- iPad support
- Support for the latest IBM Rational development environments, such as IBM Rational Application Developer for WebSphere Software V8.0 and IBM Rational Developer for i for SOA Construction V8.0
- Support for the latest runtimes including WebSphere Application Server V8.0, WebSphere Portal V7.0, Eclipse V3.5 and V3.6, Lotus Notes® V8.5.2, and Lotus® Expeditor V6.2.2

Overview

With IBM Rational Host Access Transformation Services (HATS), you can rapidly transform the end user experience of your 3270 applications running on IBM System z® and your 5250 applications running on IBM i without modifying those applications. 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 an IBM WebSphere Application Server or a WebSphere Portal Server runtime, and your end-users access the applications with standard web browsers, including mobile device browsers. HATS rich client applications are developed to run in the IBM Lotus Notes Client or IBM Lotus Expeditor Client, or in an Eclipse rich client platform implementation to provide native client applications 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 service-oriented architecture (SOA) assets that can be deployed

as reusable components and can be integrated into new internal applications or applications outside your enterprise.

Key prerequisites

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

Planned availability date

August 12, 2011: Electronic availability

August 12, 2011: Media availability

Description

IBM Rational HATS consists of two components:

- The toolkit
- The runtime

The IBM Rational HATS Toolkit is a set of plug-ins for the Eclipse-based IBM Rational Software integrated development environment (IDE) tools. The HATS Toolkit enables you to develop new applications that generate GUIs for your 3270 and 5250 applications. Develop your new applications iteratively, previewing and saving each change you make. Over time, or as quickly as desired, your HATS applications can be streamlined, making them easier to use. Your new applications can be accessed from a browser, portlet, rich client, or even a mobile device.

With the HATS toolkit you can create a GUI 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 will be deployed to a production environment, such as WebSphere Application Server, WebSphere Portal Server, or the IBM Lotus Notes client. End-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 are creating, you may 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, bypassing 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, as well as 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 IBM Rational HATS V8.0

Dojo widget support

With IBM Rational HATS V8.0 you can use Dojo widgets to improve the functionality and appearance of your HATS applications. The Dojo framework is a popular user interface framework based on standard HTML, JavaScript™, and cascading style sheets (CSS). You can use HATS Dojo widgets to render certain HATS host components in screen transformations, and then use the Dojo Toolkit and IBM extensions that are integrated with IBM Rational IDE offerings to further customize HATS Dojo widgets and Integration Object input and output properties. This support lets you customize the HATS user interface in a standard way.

RESTful web services

With HATS V8.0 you can create JAX-RS RESTful web services, which provide an alternative to the traditional Web Services Definition Language (WSDL)-style web service implementation and may be more appropriate for your particular needs. RESTful web services use HTTP instead of SOAP, and may require less bandwidth, which may be useful for devices like mobile phones and PDAs. In addition, use of the HTTP caching infrastructure (with the HTTP GET method) may improve performance for data that can be cached.

HATS runtime support for RESTful web services requires the JAX-RS support included in the WebSphere Application Server Version V6.1 Feature Packs, or in the feature pack for Web 2.0 for WebSphere Application Server Version V7.0. WebSphere Application Server V8.0 includes the required JAX-RS support.

JSR 286 standard portlets

HATS V8.0 extends its support for the standard Java Portlet Specification API Version 1 (JSR 168) to support development of HATS portlets that comply with Version 2 of the standard (JSR 286). Included is support for portlet communication using JSR 286 events, support for Web Services for Remote Portlets (WSRP), and overriding connection parameters and global variables using portlet edit mode.

Automatic disconnect and refresh for JSR 286 standard portlets

AJAX-based, auto-disconnect and auto-refresh functions, previously available only for HATS web screen transformation applications, are available for HATS JSR 286 standard portlet applications. You can improve the performance and usability of HATS JSR 286 portlet applications through the use of these AJAX-based functions.

The auto-disconnect function provides the ability to detect when the browser is out of contact with your HATS application for a predefined period of time. When detected, disconnect processing is performed.

The purpose of the auto-refresh function is to automatically refresh the HATS portlet if the underlying host screen changes. This eliminates the requirement for the user to click the Refresh button to see asynchronously changed screens from the host.

iPad support

With HATS V8.0 you can create web applications that extend access to your host applications to iPad devices.

Simplified specification for rich client, type-ahead support

Rich client, type-ahead support enables the user to begin typing data intended for input fields on the next host screen (or screens), before they are received and processed by HATS. As the next screen (or screens) are received, HATS sends the previously typed data including any keys that submit the input to the host. This support can now be enabled using the Enable type-ahead support setting in the project editor.

Screen capture support for video terminal (VT) connections

Screen captures of VT host screens can now be used to create or customize a macro using the Visual Macro Editor and as the check-in screen when configuring pooling.

Support for the latest development environments

HATS V8.0 includes support of the latest IBM Rational development environments, such as IBM Rational Application Developer for WebSphere Software V8.0. Refer to the Software prerequisites for more information.

Support for the latest runtimes

New supported HATS runtime environments include WebSphere Application Server V8.0, WebSphere Portal V7.0, Eclipse V3.5 and V3.6, Lotus Notes V8.5.2, and Lotus Expeditor V6.2.2. See Software prerequisites for more information.

Bidirectional language support enhancements

Significant bidirectional language support enhancements have been made in HATS V8.0, including RESTful Web services support for bidirectional sessions, improved portlet communication support, Arabic language translation of the HATS Toolkit, and other bidirectional language ease of use improvements.

HATS V8.0 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.

IBM Rational HATS for Multiplatforms

Supporting programs

The program is licensed as a multi-product package and includes the supporting programs identified below. Licensee is authorized to install and use such supporting programs only to support licensee's use of the principal program under this agreement and within the limits of the proofs of entitlement for the program (unless broader rights are provided elsewhere in this License Information document).

The phrase "to support licensee's use" would include only those uses that are necessary or otherwise directly related to a licensed use of the principal program or another supporting program. The supporting programs may not be used for any other purpose. Licensee is not authorized to transfer or remarket the supporting programs separate from the principal program. The terms of this Agreement may replace or modify the license terms for the supporting programs. In the event of conflict, these terms supersede the terms of the license agreement which accompanies the supporting programs.

When licensee's right to use the program expires or terminates, licensee must discontinue use, destroy or promptly return all copies of the supporting programs to the party from whom licensee acquired the program. If licensee downloaded the supporting programs, licensee should contact the party from whom licensee acquired the program. If licensee wishes to license the supporting programs for any use beyond the limits set forth above, please contact an IBM representative or the party from whom licensee acquired the program to obtain the appropriate license.

WebSphere Application Server Network Deployment V8.0 is a supporting programs licensed with the program.

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.

When determining the number of entitlements required for licensee's installation or use of the program, the installation or use of the following program components are not taken into consideration. In other words, licensee may install and use the following program components, under the license terms, but these components are not used to determine the number of entitlements required for the program.

- 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.

IBM Rational HATS for 5250 Applications

Supporting programs

The program is licensed as a multi-product package and includes the supporting programs identified below. Licensee is authorized to install and use such supporting programs only to support licensee's use of the principal program under this agreement and within the limits of the proofs of entitlement for the program (unless broader rights are provided elsewhere in this License Information document). The phrase "to support licensee's use" would include only those uses that are necessary or otherwise directly related to a licensed use of the principal program or another supporting program. The supporting programs may not be used for any other purpose. Licensee is not authorized to transfer or remarket the supporting programs separate from the principal program. The terms of this agreement may replace or modify the license terms for the supporting programs. In the event of conflict, these terms supersede the terms of the license agreement which accompanies the supporting programs.

When licensee's right to use the program expires or terminates, Licensee must discontinue use, destroy or promptly return all copies of the supporting programs to the party from whom licensee acquired the program. If licensee downloaded the supporting programs, licensee should contact the party from whom licensee acquired the program. If Licensee wishes to license the supporting programs for any use beyond the limits set forth above, please contact an IBM Sales Representative or the party from whom licensee acquired the program to obtain the appropriate license.

WebSphere Application Server - Express® V8.0 is a supporting program licensed with the program.

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-U68	8.0.0	IBM Rational HATS for 5250 Applications
5724-U67	8.0.0	IBM Rational HATS for Multiplatforms

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

No publications are shipped with these products.

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 (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Specified operating environment

Hardware requirements

- Disk space: 500 MB DASD above what the requisite software delivery platform requires Additional disk space will be required for web or rich client application resources developed
- Display resolution: 1024 x 768, 1280 x 1024 recommended
- Memory: 1 GB RAM minimum (2 GB RAM is recommended)
- Processor: Intel™ Pentium™ III 800 MHz processor minimum (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 listed in the web, Portlet, and WebFacing runtime requirements section
- The HATS Rich client runtime supports all operating systems supported by the required platforms listed in the HATS Rich client requirements section.

HATS Toolkit requirements

One of the following development tools:

- IBM Rational Application Developer for WebSphere Software V8.0 and future modification levels and their fix packs
- IBM Rational Application Developer Standard Edition V8.0 and future modification levels and their fix packs
- IBM Rational Software Architect for WebSphere Software V8.0 and future modification levels and their fix packs
- IBM Rational Business Developer V8.0.1 and future modification levels and their fix packs
- IBM Rational Developer for System i® for SOA Construction V8.0 and future modification levels and their fix packs
- IBM Integration Designer V7.5 and future modification levels and their fix packs
- IBM Rational Developer for Power® System Software V8.0 and future modification levels and their fix packs (in combination with one of the above required development tools, as appropriate)
- IBM Rational Developer for System z V8.0.2 and future modification levels and their fix packs (in combination with one of the above required development tools, as appropriate)

For detailed levels of required software and features for the HATS Toolkit, see the HATS Detailed System Requirements page at

<http://www.ibm.com/support/docview.wss?rs=3441&uid=swg27019102>

Notes

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

- Web Development Tools
- Plug-in Development Environment (PDE)
- Tools for WebSphere Application Server V6.1, V7.0, and V8.0

Installing the 'Java client application editor (VE)' greatly simplifies editing transformations in RCP projects.

The Portal Tools necessary for creating HATS portlets are not available in all supported development tools. Refer to the documentation for the specific development tool to determine whether Portal Tools are included.

HATS Web, Portlet, and WebFacing runtime requirements

One of the following web application or portal servers:

- i5/OS® V5R4 Integrated Web Application Server for i and future modification levels and their fix packs (WebFacing runtime only)
- 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)
- WebSphere Application Server - Base V6.1 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 - Base V8.0 and future modification levels and their fix packs
- WebSphere Application Server - Express V6.1 and future modification levels and their fix packs
- WebSphere Application Server - Express 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 Network Deployment V6.1 and future modification levels and their fix packs
- WebSphere Application Server Network Deployment 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

Deployment of HATS V8 portlets requires WebSphere Portal V6.1 or V7.0 and future modification levels and their fix packs.

For detailed levels of required runtime software for HATS Web deployment, see the HATS Detailed System Requirements page at

<http://www.ibm.com/support/docview.wss?rs=3441&uid=swg27019102>

Notes

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

- iSeries® Access for Web V5R4 available as part of the iSeries Access Family
- System i 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

For a list of IBM i updates required, refer to WebFacing Server PTFs at

<http://www.ibm.com/support/docview.wss?uid=swg27002213>

HATS Rich client runtime requirements

One of the following rich client platforms:

IBM Lotus Expeditor Client deployment

- IBM Lotus Expeditor V6.2.0, V6.2.1, V6.2.2 - Client for Desktop

IBM Lotus Notes Client deployment

- IBM Lotus Notes V8.5.1 and V8.5.2 and future fix packs

Eclipse rich client platform deployment

- Eclipse V3.4
- Eclipse V3.5
- Eclipse V3.6

Java (any of the following versions, or later, as appropriate) Java Technology IBM Runtime Environment ,Java Technology Edition 5.0.12

- Sun Java SDK/JRE/JDK 5.0 Update 24
- Sun Java SDK/JRE/JDK 6.0 Update 23

For detailed levels of required runtime software for HATS rich client deployment, see the HATS Detailed System Requirements page at

<http://www.ibm.com/support/docview.wss?rs=3441&uid=swg27019102>

Supported browser levels for the web and Portlet runtimes

- Apple Safari 4.0 and future modification levels and their fix packs
- Apple Safari 5.0 and future modification levels and their fix packs
- Konqueror 4.3 and future modification levels and their fix packs
- Microsoft™ Internet Explorer 6.0 and future modification levels and their fix packs
- Microsoft Internet Explorer 7.0 and future modification levels and their fix packs
- Microsoft Internet Explorer 8.0 and future modification levels and their fix packs
- Microsoft Internet Explorer 9.0 and future modification levels and their fix packs
- Mozilla Firefox 3.0 and future modification levels and their fix packs
- Mozilla Firefox 3.6 and future modification levels and their fix packs
- Mozilla Firefox 4.0 and future modification levels and their fix packs
- Opera 10.0 and future fix packs

Supported browser levels for the WebFacing runtime

- Microsoft Internet Explorer 6.0 and future modification levels and their fix packs
- Microsoft Internet Explorer 7.0 and future modification levels and their fix packs
- Microsoft Internet Explorer 8.0 and future modification levels and their fix packs
- Microsoft Internet Explorer 9.0 and future modification levels and their fix packs
- Mozilla Firefox 3.0 and future modification levels and their fix packs
- Mozilla Firefox 3.6 and future modification levels and their fix packs
- Mozilla Firefox 4.0 and future modification levels and their fix packs

Mobile web browsers

- Windows Mobile 5 and future modification levels and their fix packs
- Windows Mobile 6 and future modification levels and their fix packs
- Windows Mobile 6.1,6.1.5 and future modification levels and their fix packs
- Windows Mobile 6.5 and future modification levels and their fix packs
- iOS 3.1.2, 4.0 (iPod Touch)
- iOS 3.2, 4.3.2 (iPad)

Notes

The following browsers are required for HATS Dojo support:

- Firefox V3 through V3.6, V4
- Internet Explorer V8 and V9
- Safari V4 or V5

For browser support notes see the HATS Detailed System Requirements page at

<http://www.ibm.com/support/docview.wss?rs=3441&uid=swg27019102>

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.

Planning information

Customer responsibilities

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

HATS for Multiplatforms

- Host Access Transformation Services V8.0 Quick Start
- Host Access Transformation Services Toolkit V8.0
- Host Access Transformation Services V8.0 Runtime Enablement
- WebSphere Application Server Network Deployment V8.0

HATS for 5250 Applications on Multiplatforms

- Host Access Transformation Services V8.0 Quick Start
- Host Access Transformation Services Toolkit V8.0
- Host Access Transformation Services V8.0 Runtime Enablement
- WebSphere Application Server - Express V8.0
- License

HATS for 5250 Applications on i

- Host Access Transformation Services V8.0 Quick Start
- Host Access Transformation Services Toolkit V8.0
- Host Access Transformation Services V8.0 Runtime Enablement
- License

Security, auditability, and control

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

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit

<http://www-306.ibm.com/software/support/pa.html>

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

Product information

Licensed function title	Product group	Product category
IBM Rational HATS for 5250 Applications on Multiplatforms	Host OnDemand	Host Integration Solution
IBM Rational HATS for 5250 Applications on i	Host OnDemand	Host Integration Solution
IBM Rational HATS for Multiplatforms	Host OnDemand	Host Integration Solution
Program name	PID number	Charge unit description
IBM Rational HATS for 5250 Applications on Multiplatforms	5724-U68	Per Authorized User
IBM Rational HATS for 5250 Applications on Multiplatforms	5724-U68	Per Processor Value Unit (PVU)
IBM Rational HATS for 5250 Applications on i	5724-U68	Per Authorized User
IBM Rational HATS for 5250 Applications on i	5724-U68	Per PVU
IBM Rational HATS for Multiplatforms	5724-U67	Per PVU for Linux™ on System z
IBM Rational HATS for Multiplatforms	5724-U67	Per Authorized User
IBM Rational HATS for Multiplatforms	5724-U67	Per Authorized User for Linux on System z
IBM Rational HATS for Multiplatforms	5724-U67	Per PVU

Charge metrics definitions

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.

Note: Some programs may be licensed where devices are considered users. In that case the following applies: Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate User of the program and requires an entitlement as if that device were a person.

Processor Value Unit

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 within the PVU Table by Processor Value, Brand, Type and

Model Number 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

Licensee can deploy the program using either Full Capacity licensing or Virtualization Capacity (Sub-Capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (see webpage below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using Virtualization Capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

* 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

Some programs may require licenses for the program AND what is being managed. In that case, the following applies: In addition to the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

Some programs may be licensed on a managed basis ONLY. In that case, the following applies: Instead of the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies: Rather than obtaining entitlements for the activated processor cores available to the program, Licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the Referenced program as if the program itself were executing everywhere the Referenced program was executing, independent of the basis on which the Referenced program is licensed.

Express and Workgroup programs may be licensed with maximum use terms. In that case, the following applies: The maximum authorized use terms and conditions for PVU licensed IBM Express and Middleware programs can be found in the IBM Express and Middleware Licensing Guide.

Passport Advantage program licenses

IBM Rational HATS for 5250 Applications

Part description	Part number
IBM Rational HATS for 5250 Applications on Multiplatforms	
HATS 5250 Multi Per Authorized User Annual SW S&S Rnw	E04JDLL
HATS 5250 Multi Per Authorized User Lic + SW S&S 12 Mo	D03J0LL
HATS 5250 Multi Per Authorized User SW S&S Reinstate 12 Mo	D03J1LL
HATS 5250 Multi Per Processor Value Unit (PVU) Annual SW S&S Rnw	E04J6LL
HATS 5250 Multi Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D03IPLL
HATS 5250 Multi Per Processor Value Unit (PVU) SW S&S	D03IQLL

Reinstate 12 Mo
 IBM Rational HATS for 5250 Applications on i
 HATS 5250 on i Per Authorized User Annual SW S&S Rnw1 E04JHLL
 HATS 5250 on i Per Authorized User Lic + SW S&S 12 Mo D03J6LL

HATS 5250 on i Per Authorized User SW S&S Reinstate 12 D03J9LL
 Mo
 HATS 5250 on i Per Processor Value Unit (PVU) Annual SW E04JJLL
 S&S Rnw1
 HATS 5250 on i Per Processor Value Unit (PVU) Lic + SW D03J8LL
 S&S 12 Mo
 HATS 5250 on i Per Processor Value Unit (PVU) SW S&S D03JBLL
 Reinstate 12 Mo

IBM Rational HATS for Multiplatforms

IBM Rational HATS for Multiplatforms
 HATS for Multiplatform Per Authorized User Annual SW E016VLL
 S&S Rnw1
 HATS for Multiplatform Per Authorized User Lic + SW S&S D53H4LL
 12 Mo
 HATS for Multiplatform Per Authorized User SW S&S D53H5LL
 Reinstate 12 Mo
 HATS for Multiplatform Per Processor Value Unit (PVU) E02JFLL
 Annual SW S&S Rnw1
 HATS for Multiplatform Per Processor Value Unit (PVU) D58BDLL
 Lic + SW S&S 12 Mo
 HATS for Multiplatform Per Processor Value Unit (PVU) D58BELL
 SW S&S Reinstate 12

Passport Advantage trade-up licenses

IBM Rational HATS for 5250 Applications

Precursor product	Trade-up product	Trade-up part number
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IBM Rational HATS for 5250 Applications on i		
Competitive	HATS 5250 on i Per Authorized User Trade Up Lic + SW S&S 12 Mo	D03JCLL
Competitive	HATS 5250 on i Per Processor Value Unit (PVU) Trade Up Lic + SW S&S 12 Mo	D03JELL

IBM Rational HATS for 5250 Applications on Multiplatforms		
Competitive	HATS 5250 Multi Per Authorized User Trade Up Lic + SW S&S 12 Mo	D03J2LL
Competitive	HATS 5250 Multi Per Processor Value Unit (PVU) Trade Up Lic + SW S&S 12 Mo	D03IRLL

IBM Rational HATS for Multiplatforms

IBM Rational HATS for Multiplatforms		
Competitive	HATS for Multiplatform Per Auth User fr Comp Trade Up Lic + SW S&S 12 Mo	D53H6LL
Competitive	HATS for Multiplatform Per Proc VU(PVU) fr Comp Trade Up Lic + SW S&	D58BFLL

Passport Advantage supply

Program name/description	Part number
HATS 5250 Multi v8.0.0	

IBM Rational HATS V8.0 for 5250 on Multiplatform Media pack	BT0EVML
HATS 5250 on i V8.0.0	
IBM Rational HATS V8.0 for 5250 on IBM i Media pack	BT0EWML
Rat1 HATS for Multi V8.0.0	
IBM Rational HATS for Multiplatform V8.0 Media Pack	BT0EURL

Passport Advantage customer: Media pack entitlement details

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IBM Rational HATS for Multiplatforms V8.0.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational HATS for Multiplatforms per Authorized User for Linux on System z	IBM Rational HATS for Multiplatform V8.0 Media Pack	BT0EURL
IBM Rational HATS for Multiplatforms per Processor Value Unit for Linux on System z	IBM Rational HATS for Multiplatform V8.0 Media Pack	BT0EURL
IBM Rational Host Access Transformation Services (HATS) Standard for Multiplatforms Authorized User	IBM Rational HATS for Multiplatform V8.0 Media Pack	BT0EURL
Rational Host Access Transformation Services for Multiplatforms per Value Unit	IBM Rational HATS for Multiplatform V8.0 Media Pack	BT0EURL

HATS 5250 Multi V8.0.0

IBM Rational HATS for 5250 Applications on Multiplatforms per Authorized User	IBM Rational HATS V8.0 for 5250 on Multiplatform Media pack	BT0EVML
IBM Rational HATS for 5250 Applications on Multiplatforms per Processor Value Unit	IBM Rational HATS V8.0 for 5250 on Multiplatform Media pack	BT0EVML

HATS 5250 on i V8.0.0

IBM Rational HATS for 5250 Applications on i5/OS per Authorized User	IBM Rational HATS V8.0 for 5250 on IBM i Media pack	BT0EWML
IBM Rational HATS for 5250 Applications on i5/OS per Processor Value Unit	IBM Rational HATS V8.0 for 5250 on IBM i Media pack	BT0EWML

Cross-platform products

Cross-platform products for use on System z

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Cross-platform product for use on System z IFL engines

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part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

IBM Rational HATS for Multiplatforms

Part description	Part number
IBM Rational HATS for Multiplatforms	
HATS for Multiplatform Per Aut.U.for Linux on Sys.z Annual SW S&S RnwI	E01NHLL
HATS for Multiplatform Per Aut.U.for Linux on Sys.z Lic + SW S&S 12 Mo	D54R7LL
HATS for Multiplatform Per Aut.U.for Linux on Sys.z SW S&S Reinstate 12 Mo	D54R8LL
HATS for Multiplatform Per Proc VU for Lin Sys z Annual SW S&S RnwI	E02JGLL
HATS for Multiplatform Per Proc VU for Lin Sys z Lic + SW S&S 12 Mo	D58BGLL
HATS for Multiplatform Per Proc VU for Lin Sys z SW S&S Reinstate 12 Mo	D58BHLL

Trade-up licenses for Cross Platform Products

IBM Rational HATS for Multiplatforms

Precursor product	Trade-up product	Part number
IBM Rational HATS for Multiplatforms Competitive	HATS for Multi Per Aut.U.for Linux on Sys.z fr Comp Trup Lic + SW S&S	D54R9LL
Competitive	HATS for Multi Per Proc VU for Lin Sys z fr Comp Trade Up Lic + SW S&S 12	D58BLLL

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Program name	Program number	Form number
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