IBM Rational Host Access Transformation Services for Multiplatforms and 5250 Applications V7.5.1 delivers additional mobile device and rich client support

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At a glance

IBM® Rational® Host Access Transformation Services (HATS) enables organizations to quickly modernize existing 3270 or 5250 green screen applications without incurring the risk of modifying these feature-rich, reliable applications. With HATS, applications can be transformed as Web, rich client, portlet, or mobile applications, or can be service-oriented architecture (SOA)-enabled as Web services.

New in HATS V7.5.1

- Mobile device support for Apple iPhone and iPod Touch
- Rich Client support extended to Lotus Notes®
- Ajax-based automatic disconnect and automatic refresh
- Simplified, customizable Web service definitions

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® platforms 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 users access the applications through 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 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

- May 26, 2010: Electronic availability
- June 7, 2010: Media availability

Description

IBM Rational HATS consists of two components: The toolkit and the runtime.

The IBM Rational HATS Toolkit is a set of plug-ins for the Eclipse-based IBM Rational Software Delivery Platform (Rational SDP). The HATS Toolkit enables you to develop new applications that generate GUIs for your 3270 and 5250 applications. Develop your new applications a step at a time, 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.

The HATS toolkit enables you to create a GUI suited to your business needs and standards. You can 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. 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 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 HATS V7.5.1

Mobile device support now includes the Apple iPhone and iPod Touch

HATS mobile device support is extended to include support for the Apple iPhone and iPod Touch. Mobile device support includes the creation of projects and user interfaces that are optimized mobile devices. Access to mission critical terminal application data from these devices allows you to improve the productivity of your...
increasingly mobile workforce and can help expand your customer base and improve your level of service.

**Rich client application support for Lotus Notes**

HATS rich client applications provide native client applications targeted for a user’s desktop that provide an easy-to-use graphical user interface for terminal applications. HATS rich client applications can now be targeted to run in a Lotus Notes environment in addition to existing support for Eclipse Rich Client Platform (RCP) and Lotus Expeditor Client environments. The benefits of HATS rich client applications include:

- Integration of mission critical terminal application data into a unified desktop
- Improved response time
- Rich user interface with a native application experience
- Client side processing

**Ajax-based automatic disconnect and refresh for Web transformation applications**

You can improve the performance and usability of HATS Web screen transformation applications through the use of new Ajax-based automatic disconnect and automatic refresh functions.

The automatic disconnect function provides the ability to detect when the browser has been out of contact with your HATS application for a predefined period of time. When detected, disconnect processing is performed to clean up resources associated with the browser session.

The automatic refresh function offers automatic updates of the Web page view of your HATS application if the underlying host screen changes due to the host application sending screen updates.

Use of Ajax as the underlying technology for this support is beneficial in that it enables automatic disconnect and refresh to be performed without the need for Java in the browser or opening additional ports for communication between the browser and HATS.

**Simplified, customizable Web service definitions**

You can now create simplified Web service definitions by selecting only the desired input and output properties that you want exposed as parameters for the Web service, eliminating the need to expose them all. In addition, you can customize the names of the input and output properties. This makes HATS Web services easier to use and integrate into other applications, plus has the potential to improve performance by eliminating processing of unnecessary parameters.

**Web Express Logon for standard JSR 168 portlets**

Web Express Logon (WEL) gives you a mechanism to authenticate users and provides them with single signon capability. This support, previously available only for Web applications and IBM portlets, is now available for standard JSR 168 portlets.

**Visual Macro Editor support for non-text host screen planes**

Using the Visual Macro Editor, you can extend your HATS macros to obtain data from non-text planes of the host screen. You can use this extra screen information to enhance the GUI you provide with your HATS applications and thereby provide a more meaningful user experience. The supported non-text planes are the: Color, Field, Extended Field, DBCS, and Grid planes.
Enhanced calendar widget

An enhancement to the calendar widget lets you specify that the calendar be displayed in the current Web page instead of in a new browser window. This is helpful in cases where pop-up blockers prevent the display of the date picker in a new browser window. The visual appearance of the enhanced calendar widget is also better integrated with HATS templates for a more consistent look.

New templates

Templates enable you to provide a consistent appearance for all of the pages of your HATS application. HATS V7.5.1 includes two new templates that provide examples of new navigational menus, layouts, color schemes, and graphics.

Improved 3270 numeric field support

A new setting for the Field and Text input widgets allows you to specify that only numeric data can be entered into 3270 numeric fields.

Additions since HATS 7.5

Japanese JIS2004 support

HATS now supports the JIS2004 standard.

IBM Visual Editor support

You can use the IBM Visual Editor, that was added to the V7.5.x IBM Rational Software Delivery Platform products, such as IBM Rational Application Developer, to visually create Rich Client transformations.

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Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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 U.S.) 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**

HATS Toolkit requirements

- Intel® Pentium® III 800 MHz processor minimum (Higher is recommended.)
- 1 GB RAM minimum (2 GB RAM is recommended.)
- 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 or higher

**Software requirements**

HATS Toolkit requirements

- Microsoft® Windows® XP Professional with Service Packs 2 and 3
- Microsoft Windows 2003 Server Enterprise Edition with Service Pack 2 x32
- Microsoft Windows Vista Ultimate Edition
- Microsoft Windows Vista Business Edition
- Microsoft Windows Vista Enterprise Edition
- Microsoft Windows 7 Professional Edition
- Microsoft Windows 7 Ultimate Edition

One of the following software delivery platforms.

- IBM Rational Application Developer V7.5.5
- IBM Rational Software Architect V7.5.5
- IBM Rational Business Developer V7.5.1.x
- IBM Rational Developer for i V7.5.0.x
- IBM Rational Developer for Power® Systems V7.6
- IBM Rational Developer for z V7.5.1.1
- IBM Rational Developer for z V7.6.x
- WebSphere Integration Developer V6.2.0.x
- WebSphere Integration Developer V7.0.0.x

For the exact levels of software required, consult the HATS System requirements page, by visiting


**Notes**

1. The Portal Tools necessary for creating HATS portlets are not available in all HATS supported clients. Refer to the documentation for the specific client software version to determine whether Portal Tools are included.
2. The minimum components required in the installation of the supported client software versions are:

- Web Development Tools
- Test and Performance Tools Platform (TTPP)
- Plug-in Development Environment (PDE)
- Tools for WebSphere Application Server V6.0, V6.1, or V7.0
- Data tools
- Business Intelligence and Reporting Tools (BIRT)

**Server run-time requirements**

HATS enterprise applications may be deployed to the following WebSphere Application Server platforms:

- Microsoft Windows XP Professional with Service Packs 2 and 3
- Microsoft Windows 2003 Server R2 or Service Pack 2
- Microsoft Windows 2008 Server R2 or Service Pack 1
- Microsoft Windows Vista Business
- Microsoft Windows Vista Enterprise
- Microsoft Windows 7 Professional
- Microsoft Windows 7 Enterprise
- Microsoft Windows 7 Ultimate
- AIX®
- z/OS®
- Solaris
- HP/UX
- i5/OS®
- Linux® for Intel
- Linux on System z
- Linux on System i®
- Linux on System p®

**One of the following WebSphere Application Servers:**

- WebSphere Application Server V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server ND V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server Express V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server for iSeries® V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server ND for iSeries V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server Express for iSeries V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server Extended Deployment V6.0 or V6.1 or V7.0 with latest PTFs
- WebSphere Application Server for zSeries® V6.0 or V6.1 or V7.0 with latest PTFs

**Notes**

1. Refer to WebSphere Application Server detailed system requirements for supported levels of all operating systems.

2. 5250 Print support requires System i Access for Web V5.2 or later, available as part of the System i Access Family.

3. Deployment of HATS V7.5.1 portlets requires WebSphere Portal V6.0.x or later
4. HATS and WebFacing runtime interoperability support requires i5/OS V5R4 (or later). Refer to WebFacing Tool PTFs for a list of IBM i updates required.

5. Windows Vista support requires WebSphere Application Server 6.1.x or later.

6. WebFacing applications may also be deployed to the i5/OS Integrated Web application server V7.1

7. Windows 7 support requires WebSphere Application Server 7.0.x or later.

**HATS rich client platform support**

IBM Lotus Expeditor Client deployment

- **IBM Lotus Expeditor V6.1.1- Client for Desktop**
  - Microsoft Windows XP Professional Service Pack 1 and Service Pack 2
  - Microsoft Windows XP Home Edition Service Pack 1 and Service Pack 2
  - Microsoft Windows Vista
  - RedHat Enterprise Linux 4.0 WS with GIMP Toolkit (GTK) support - Update 4
  - Red Hat Enterprise Linux 5.0 WS with GTK support
  - SUSE Linux Enterprise Desktop (SLED) 10

- **IBM Lotus Expeditor V6.1.1 - Toolkit (development environment)**
  - Microsoft Windows XP Professional with Service Pack 2
  - Microsoft Windows Vista
  - One of the following software delivery platforms: IBM Rational Application Developer V7.5.5 or IBM Rational Software Architect V7.5.5

- **IBM Lotus Expeditor V6.1.1 - Device Runtime Environment (DRE)**
  - Microsoft Windows XP Professional with Service Pack 2
  - Microsoft Windows Vista
  - Red Hat Enterprise Linux 4.0 WS with GTK support - Update 4
  - Red Hat Enterprise Linux 5.0 WS with GTK support
  - SUSE Linux Enterprise Desktop (SLED) 10
  - One of the following software platforms: Lotus Expeditor V6.1.1 - Client for Desktop or Lotus Expeditor V6.1.1 - Toolkit

- **IBM Lotus Expeditor V6.1.2 - Client for Desktop**
  - Microsoft Windows XP Professional Service Pack 1 and Service Pack 2
  - Microsoft Windows XP Home Edition Service Pack 1 and Service Pack 2
  - Microsoft Windows Vista; Vista Business and Vista Enterprise (with Aero)
  - RedHat Enterprise Linux 4.0 WS with GIMP Toolkit (GTK) support - Update 5
  - Red Hat Enterprise Linux 5.0 WS with GTK support - Update 1
  - SUSE Linux Enterprise Desktop (SLED) 10 Fix Pack 1 (with XGL)

- **IBM Lotus Expeditor V6.1.2 - Toolkit (development environment)**
  - Microsoft Windows XP Professional with Service Pack 2
  - Microsoft Windows Vista
  - One of the following software delivery platforms: IBM Rational Application Developer V7.5.5 or IBM Rational Software Architect V7.5.5

- **IBM Lotus Expeditor V6.1.2 - Device Runtime Environment (DRE)**
  - Microsoft Windows XP Professional with Service Pack 2
  - Microsoft Windows Vista
  - Red Hat Enterprise Linux 4.0 WS with GTK support - Update 5
  - Red Hat Enterprise Linux 5.0 WS with GTK support - Update 1
- SUSE Linux Enterprise Desktop (SLED) 10
- One of the following software platforms: Lotus Expeditor V6.1.2 - Client for Desktop or Lotus Expeditor V6.1.2 - Toolkit

**IBM Lotus Expeditor V6.2.1 - Client for Desktop**
- Microsoft Windows XP Professional Service Pack 3
- Microsoft Windows XP Home Edition Service Pack 3
- Microsoft Windows Vista Home; Premium, Enterprise (with Aero) Service Pack 1, Ultimate
- Red Hat Enterprise Linux 5.2 Desktop with GTK support
- SUSE Linux Enterprise Desktop (SLED) 10 Fix Pack 2 (with XGL)
- SUSE Linux Enterprise Desktop (SLED) 11

**IBM Lotus Expeditor V6.2.1 - Toolkit (development environment)**
- Microsoft Windows XP Service Pack 2
- Microsoft Windows Vista Service Pack 1
- One of the following software delivery platforms: IBM Rational Application Developer V7.5.5 or IBM Rational Software Architect V7.5.5

IBM Lotus Notes Client deployment

**IBM Lotus Notes V8.5.1 or later**
- Microsoft Windows XP Professional Edition with Service Packs 2 and 3
- Microsoft Windows XP Home Edition with Service Pack 2 and 3
- Microsoft Windows Vista
- SUSE Linux Enterprise Desktop (SLED) Version 10.0 SP2
- Red Hat Enterprise Linux 5.0 WS Update 2 or higher Desktop edition with GTK support

Eclipse rich client platform deployment

Eclipse V3.2 with EMF/SDO V2.2.0 on one of the following 32-bit platforms:

**Microsoft Windows**
- Sun Java 2 Standard Edition 5.0 Update 6 for Microsoft Windows
- IBM 32-bit SDK for Windows, Java 2 Technology Edition 5.0 service release 1
- Sun Java 2 Standard Edition 1.4.2_10 for Microsoft Windows
- IBM 32-bit SDK for Windows, Java 2 Technology Edition 1.4.2 service release 3

**RedHat Enterprise Linux 4.0 WS**
- Sun Java 2 Standard Edition 1.4.2_10 for Linux x86
- IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 1.4.2 service release 3
- Sun Java 2 Standard Edition 5.0 Update 6 for Linux x86
- IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 5.0 service release 1

**SUSE SLES 9**
- Sun Java 2 Standard Edition 1.4.2_10 for Linux x86
- IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 1.4.2 service release 3

Eclipse V3.3 with EMF/SDO V2.3.0 on one of the following platforms:

**Microsoft XP (32-bit only)**
- Sun Java 2 Standard Edition 5.0 Update 11 for Microsoft Windows
- IBM 32-bit SDK for Windows, Java 2 Technology Edition 5.0, SR4
- Sun Java 2 Standard Edition 1.4.2_14 for Microsoft Windows
- IBM 32-bit SDK for Windows, Java 2 Technology Edition 1.4.2 SR7

- Red Hat Enterprise Linux 5.0 x86-32
  - Sun Java 2 Standard Edition 5.0 Update 11 for Linux x86
  - IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 5.0, SR4
  - Sun Java 2 Standard Edition 1.4.2_13 for Linux x86
  - IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 1.4.2 SR7

- SUSE Linux Enterprise Server 10, x86-32
  - Sun Java 2 Standard Edition 5.0 Update 11 for Linux x86
  - IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 5.0, SR4

Eclipse V.3.4 with EMF/SDO V2.4.0 on one of the following platforms:

- Microsoft Windows Vista, x86-32
  - Sun Java 2 Standard Edition 5.0 Update 14 for Microsoft Windows
  - IBM 32-bit SDK for Windows, Java 2 Technology Edition 5.0, SR6b

- Microsoft Windows XP, x86-32
  - Sun Java 2 Standard Edition 6.0 Update 4 for Microsoft Windows
  - Sun Java 2 Standard Edition 5.0 Update 14 for Microsoft Windows
  - IBM 32-bit SDK for Windows, Java 2 Technology Edition 5.0, SR6b
  - Sun Java 2 Standard Edition 1.4.2_16 for Microsoft Windows
  - IBM 32-bit SDK for Windows, Java 2 Technology Edition 1.4.2 SR10

- Red Hat Enterprise Linux 5.0, x86-32
  - Sun Java 2 Standard Edition 5.0 Update 14 for Linux x86
  - IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 5.0, SR6b
  - Sun Java 2 Standard Edition 1.4.2_16 for Linux x86
  - IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 1.4.2 SR10

- SUSE Linux Enterprise Server 10, x86-32
  - Sun Java 2 Standard Edition 5.0 Update 14 for Linux x86
  - IBM 32-bit SDK for Linux on Intel architecture, Java 2 Technology Edition 5.0, SR6b

- Red Hat Enterprise Linux 5.0, Power
  - IBM 32-bit SDK for Linux on pSeries® architecture, Java 2 Technology Edition 5.0, SR6b

- SUSE Linux Enterprise Server 10, Power
  - IBM 32-bit SDK for Linux on pSeries architecture, Java 2 Technology Edition 5.0, SR6b

**Supported browsers**

- Windows requires Internet Explorer 6, 7, 8, Firefox 2 or later, Opera 9 or later, and Safari 3 or later.
- Solaris requires Firefox 2 or later and Opera 9 or later.
- Linux requires Opera 9 or later, Konqueror 3.2 or later, and Firefox 2 or later.
- Macintosh requires Safari 2 or later, Firefox 2 or later, and Opera 9 or later.
- Windows Mobile requires Internet Explorer Mobile 5.0 or later.
• iPod and iPhone requires iPod OS Safari 3 or later.

**Limitations**

• Bi-directional support is available only with Internet Explorer 6.0 with SP 1 or later, or Firefox 2 or later.
• Rich client platform support requires that the JRE included in the IBM Lotus Expeditor V6.1 DRE be installed to the software delivery platform.
• In HATS rich client applications, if you use ATOK2006 with Roman input mode, the input mode changes to Kana input mode using the AutoIME function. This is a limitation in the Eclipse environment.
• Ajax asynchronous update and disconnect is not supported in Portal.

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. 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

HATS for 5250 Applications on Multiplatforms

**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

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

**Product information**

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**Charge metrics definitions**

**Processor Value Unit (PVU)**

PVU is a unit of measure by which this software product can be licensed. PVU entitlements are based on processor technology (defined within the PVU table) by processor vendor, brand, type and model number. IBM continues to define a processor, for purposes of PVU-based licensing, to be each processor core on a chip. Each software product has a unique price per PVU. To determine the total cost of deploying an individual software product in a specific hardware environment, you must take the following steps:

1. For each processor core in the hardware environment on which the software product is to be licensed, determine the PVU requirement based on its processor technology per the PVU table.
2. Add the PVU requirements for all processor cores in the hardware environment.
3. Multiply the software product’s price per PVU by the total number of PVUs required as determined in step 2 above.

PVU entitlements are specific to a software product and may not be exchanged, interchanged, or aggregated with PVU entitlements of another software product.

Unless you have deployed eligible sub-capacity products according to the sub-capacity terms, you must obtain PVU Proof of Entitlements (PoEs) for the maximum number of activated physical processor cores in the hardware environment made available to or managed by the software product. This is also referred to as full capacity licensing.

For information regarding PVU and sub-capacity licensing, including the latest PVU table, visit [http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html](http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)
Activated processor cores are physical processor cores that are available for use in a server. They include processor cores:

- That are activated (available for use) when the server is shipped by the manufacturer
- That are activated subsequently through activation codes purchased from the server manufacturer by the customer
- Whose capacity can be limited by the customer through Virtualization technologies, Operating System commands and BIOS settings

**Authorized User**

Authorized User is the unit of measure by which this program is licensed. An Authorized User is an individual (named or unnamed) within or outside of your enterprise. The program may be installed on one or more computers or servers and accessed by the number of users authorized by the Proof of Entitlement (PoE). You must have an entitlement for each Authorized User accessing the program or any program component in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.

**Processor Value Unit**

A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program.

**Passport Advantage program licenses**

**IBM Rational HATS for 5250 Applications**

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### Passport Advantage Trade-up licenses

#### IBM Rational HATS for 5250 Applications

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#### IBM Rational HATS for Multiplatforms

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| Competitive Tradeup | HATS Multi Standard per Value Unit from Competitive Trdup Lic + SW S&S 12Mo | D58BFLL |

#### Passport Advantage supply

- HATS 5250 Multi V7.5.1
- IBM Rational HATS V7.5.1 for 5250 on Multiplatform Media Pack: BT0BTML
- HATS 5250 Multi V7.5.1
- IBM Host Access Transformation Services Standard per Sub-Capacity Value Unit: BT0BVML
- IBM Host Access Transformation Services SubCapacity Processor Value Unit for Linux on System z: BT0BVML
IBM Rational HATS for Multiplatforms per Authorized User for Linux on System z
IBM Rational HATS for Multiplatforms per Processor Value Unit for Linux on System z
IBM WebSphere Host Access Transformation Services (HATS) Standard for Multiplatforms Authorized User
WebSphere Host Access Transformation Services for Multiplatforms per Value Unit

**IBM Rational HATS 5250 on i V7.5.1**

IBM Rational HATS for 5250 Applications on i5/OS per Authorized User
IBM Rational HATS for 5250 Applications on i5/OS per Processor Value Unit
IBM Rational HATS for 5250 Applications on i5/OS per SubCapacity Processor Value Unit

**IBM Rational HATS 5250 Multi V7.5.1**

IBM Rational HATS for 5250 Applications on Multiplatforms per Authorized User
IBM Rational HATS for 5250 Applications on Multiplatforms per Processor Value Unit
IBM Rational HATS for 5250 Applications on Multiplatforms per SubCapacity Processor Value Unit

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IBM Rational HATS for Multiplatforms

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Trade-up licenses for Cross Platform Products

IBM Rational HATS for Multiplatforms

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