

IBM HATS for Multiplatforms V9.7, IBM HATS for 5250 Applications on i, V9.7, and IBM HATS for 5250 Applications on Multiplatforms, V9.7 deliver improvements and enhanced support for current integrated development environment offerings, runtimes, and browsers

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At a glance

New in version 9.7 of IBM^(R) Host Access Transformation Services (HATS) for Multiplatforms, IBM HATS for 5250 Applications on i, and IBM HATS for 5250 Applications on Multiplatforms:

- Support for version 9.7 of the IBM Integrated Development Environment (IDE) offerings, which includes Rational^(R) Application Developer for WebSphere^(R) Software
- Support for JAX RS 2.0 that leverages recent runtime capabilities on RESTAPI
- Support for HATS toolkit on MAC OSX platform
- Capability to minify JavaScriptTM, compressing script files on HATS projects to enable ease of consumption
- Transformation support for larger screen size terminals up to 62 in. x 160 in.

Overview

With IBM HATS, you can rapidly transform the user experience of your 5250 applications (which 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 requirements

IBM HATS supports Microsoft™ Windows™ operating systems.

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

Planned availability date

March 20, 2019

Description

HATS consists of two components:

- HATS Toolkit
- HATS Runtime

HATS Toolkit is a set of plug-ins for the Eclipse-based IBM IDE offerings. The HATS Toolkit enables you to develop new applications that generate GUIs for your 5250 applications. Develop your new applications iteratively to preview and save each change that you make. HATS applications can be streamlined over time or as quickly as desired, making them easier to use. 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.

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 exchanged between the user and the host application.

Regardless of the kind of HATS application that you create, you can decide when to expand beyond the limits of basic configuration. For example, HATS enables you to:

- Use HATS macro support to provide streamlined navigation through multiple host screens
- Direct your users 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, 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. HATS Integration Objects can also be used in Enterprise JavaBeans™ applications.

HATS V9.7 focuses on enabling a wide range of users to develop their mainframe modernization applications using MAC platform. This release enhances the

capabilities of existing users of other supported IDEs to work with HATS Studio on MAC platform. This release also delivers:

- New screen size transformation capability
- The option to minify JAVA scripts out of the box using minifyJS feature, to help enhance security and performance
- Enhanced JAX-RS2.0 support that helps improve the user productivity

Version 9.7 of HATS for Multiplatforms, HATS for 5250 Applications on i, and HATS for 5250 Applications on Multiplatforms brings the following enhancements, support, and improvements:

- Support for version 9.7 of the IBM Integrated Development Environment (IDE) offerings, which includes:
 - Rational Application Developer for WebSphere Software
- Support for JAX RS 2.0 that leverages recent runtime capabilities on RESTAPI
- Support for HATS toolkit on MAC OSX platform
- Minify JS that compresses script files on HATS projects that enables ease of consumption
- Transformation support for wider or bigger screen size terminals up to 62 in. x 160 in.

Accessibility by people with disabilities

A US Section 508 Accessibility Compliance Report containing details on accessibility compliance can be found on the [Product accessibility information](#) website.

Reference information

For more information about IBM HATS, see Software Announcement [217-259](#), dated November 7, 2017.

Program number

Program number	VRM	Program name
5724-U67	9.7	IBM Host Access Transformation Services for Multiplatforms
5724-U68	9.7	IBM Host Access Transformation Services for 5250 Applications on i
5724-U68	9.7	IBM Host Access Transformation Services for 5250 Applications on Multiplatforms

Offering Information

Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage^{\(R\)} and Passport Advantage Express^{\(R\)}](#) website.

Publications

None

Services

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Technical information

Specified operating environment

Hardware requirements

- Disk space: 500 MB - 1 GB DASD above the requisite software delivery platform. Additional disk space is required for web or rich client application resource development.
- Display resolution: 1280 x 1024 minimum.
- Memory: 4 GB RAM minimum.
- Processor: 32-bit (x86) Core 2 Duo (or equivalent). 64-bit (x64) Core 2 Quad (or equivalent), or higher.

Software requirements

Operating system considerations

- The HATS Toolkit supports all Windows and MAC 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 V9.7
- Rational Software Architect for WebSphere Software V9.7

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 V9.0

Application Servers

- Oracle WebLogic server 12c (12.2.1.3) and future modification levels and their fix packs
- Geronimo 3.0.1 and future modification levels and fix packs
- IBM WebSphere Application Server Network Deployment V9.0
- 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

Eclipse runtime environment

- IBM Eclipse SDK V4.7 and future modification levels and their fix packs
- Lotus Notes^(R) V9.0.1 and future fix packs
- Lotus^(R) 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 11.0 and future modification levels and fix packs
- Microsoft Edge 40.x and future modification levels and fix packs
- Google Chrome 72.x and future modification levels and fix packs
- Mozilla Firefox 65 and future modification levels and fix packs
- Apple Safari 10.13 and future modification levels and fix packs

Planning information

Packaging

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Program identifier	License Information document title	License Information document number
5724-U67	IBM Host Access Transformation Services for Multiplatforms	L-MEMS-B8PJV7
5724-U68	IBM Host Access Transformation Services for 5250 Applications on i IBM Host Access Transformation Services for 5250 Applications on Multiplatforms	L-MEMS-B8PJV6

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License Information number

The following License Information documents apply to the offerings in this announcement:

Program identifier	License Information document title	License Information document number
5724-U67	IBM Host Access Transformation Services for Multiplatforms	L-MEMS-B8PJV7
5724-U68	IBM Host Access Transformation Services for 5250 Applications on i IBM Host Access Transformation Services for 5250 Applications on Multiplatforms	L-MEMS-B8PJV6

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Limited warranty applies

Yes

Limited warranty

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Variable charges apply

No

Educational allowance available

Not applicable.

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