



# IBM Rational Rhapsody V7.6 introduces online design collaboration based on Jazz and advanced analysis and simulation for systems engineers

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## At a glance

IBM® Rational® Rhapsody® V7.6 provides:

- Web access for team collaboration, searching, and review through Jazz™ integration
- Improved simulation, analysis and validation capabilities for validation of functionality and integration of design with physical world
- Capabilities to help meet safety critical development standards such as ISO 26262, IEC 61508, and IEC 62304
- More robust systems and software testing capabilities

## Overview

Systems engineers and software developers of embedded systems are faced with the challenge of specifying and delivering systems with increasingly complex electrical, software, and mechanical requirements that also are high quality and safe. IBM Rational Rhapsody V7.6 delivers new capabilities to help foster team collaboration of cross discipline teams and validate functionality and architectures earlier in development to help improve quality.

Different disciplines need to cohesively work together to meet requirements of customers, management, marketing, suppliers, or other stakeholders. IBM Rational Rhapsody V7.6 makes design information accessible across the development organization and the extended team with addition of the new IBM Rational Rhapsody Design Manager V3.0. With this new IBM Rational Rhapsody Design Manager product, IBM Rational Rhapsody design information can be stored in a central location, linked to requirements, work items and test plans, and accessed easily through a web browser by the extended team to get them involved earlier in the development phase to help avoid problems later and mitigate project risk.

The entire team can search across multiple projects; create Open Services for Lifecycle Collaboration (OSLC) links across lifecycle artifacts to tools such as IBM Rational DOORS®, IBM Rational Team Concert™ or IBM Rational Quality Manager; and perform design reviews with comments and diagram markups associated with design elements. To learn more about IBM Rational Rhapsody Design Manager and download a trial copy by visiting

<http://jazz.net/projects/design-management/>

Systems engineers need to make key architecture, design, and functionality decisions early in the development phase before hardware may be available. IBM Rational Rhapsody V7.6 makes it easier to capture and dynamically analyze the systems functional behavior with improvements to activity diagram execution for early validation on a host computer earlier.

Additional improvements are added for co-simulation of the systems specification in IBM Rational Rhapsody with The Mathworks Simulink plant model to help validate how the design will interact with the physical world to avoid costly hardware prototypes.

Software engineers developing products with safety critical concerns need to adhere to standards such as ISO 26262, DO-178B, IEC 61508, or IEC 62304 and may need to follow strict coding and testing guidelines.

IBM Rational Rhapsody V7.6 helps teams developing to safety critical standards by improving adherence of code to MISRA guidelines and model checks. Version 7.6 also provides support for avionics systems developers with support for ARINC 653 to assist in documenting, verifying, and validating an application meets safety critical standards.

Improvements to IBM Rational Rhapsody TestConductor Add On are added to help systems engineers and software developers make it easier to specify more complex test scenarios, test on an embedded target, validate Android applications using model based testing and gain an understanding of the quality of their testing with code coverage.

IBM Rational Rhapsody V7.6 also provides many other improvements including updated look and feel, improved usability to help automate tasks, delivery of live documentation updates through web, plus much more.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: AE001)

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## Key prerequisites

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

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## Planned availability date

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June 23, 2011: Electronic availability

July 4, 2011: Media availability

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## Description

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### IBM Rational Rhapsody Design Manager Integration

IBM Rational Rhapsody models can now be automatically published to a Jazz-based repository and accessed using IBM Rational Rhapsody Design Manager enabling the extended team to obtain key design information using a web browser. The IBM Rational Rhapsody Design Manager integration provides:

- Central location for your organization to collaborate on multiple IBM Rational Rhapsody projects stored in the Jazz Repository
- Access with web browser or Rhapsody desk top to IBM Rational Rhapsody models to provide easy access to project stakeholders
- Ability to search, query, and viewing across projects and lifecycle artifacts to help find key information from multiple sources quickly

- Ability to link with Open Services for Lifecycle Collaboration (OSLC) to trace from designs to other lifecycle artifacts such as requirements
- Design review feature that allow stakeholders to provide comments and visual mark-ups linked to the designs
- Auto publishing IBM Rational Rhapsody models to server to share the latest model information
- Developer and management dashboards to help see recent design activity and project status
- Snapshots on published designs for controlling changes
- Dependency relationship diagrams to visualize relationships between designs and lifecycle artifacts for impact analysis
- Open interfaces for document generation and reporting by tools like IBM Rational Publishing Engine to automate documentation generation across disciplines
- IBM Rational Rhapsody Design Reviewer that provides view, linking and reviewing capabilities for extended team

For more information about IBM Rational Rhapsody Design Manager, visit

<http://www.jazz.net>

### **Improved requirement analysis and validation for systems engineers**

IBM Rational Rhapsody V7.6 improves support for model-based systems engineering with improvements for early analysis and validation of design, and enhances support for SysML to capture complex systems. SysML viewpoints are added allowing the model to be filtered to focus on a particular view for visual filtering, for example mechanical or safety. Improvement are added for trade study analysis by allowing the specification of values for different instance of the same subsystem to compare alternatives during parametric constraint evaluation.

### **Improved activity diagram simulation**

IBM Rational Rhapsody V7.6 enhances its abilities to simulate activity diagrams using UML token passing semantics by providing support for functional decomposition and enabling more model expressiveness. It is possible now to simulate activities used to describe use cases and operations. Visually debug the behavior of the use case or operation to uncover potential design errors. When an operation is invoked during simulation this will trigger the activation of its activity diagram for debugging. It is also possible to use breakpoints to assist in uncovering the source of an error.

Additionally, improvements are added for the passing of data to actions and the control of execution behavior based on the data. Data tokens can be routed with control nodes to control the flow of execution based on the data values to model functionality based on data values. Activity diagram simulation is available with IBM Rational Rhapsody Designer for System Engineers and IBM Rational Rhapsody Developer for C++.

### **Plant model co-simulation with Simulink**

Perform™ co-simulation with Simulink that includes the entire IBM Rational Rhapsody model. The entire architecture and plant models are represented in IBM Rational Rhapsody, with the plant models represented as Simulink blocks. The entire design is exported to the Simulink simulator. The simulation is started in Simulink and the IBM Rational Rhapsody blocks are then animated back in IBM Rational Rhapsody to provide co-simulation of the design interacting with the physical world modeled as a plant model.

## **Support for safety critical software development**

Software engineers developing products with safety critical concerns need to adhere to standards such as ISO 26262, DO-178B, IEC 61508 or IEC 62304 and may need to follow strict coding and testing guidelines. IBM Rational Rhapsody Developer V7.6 helps teams developing to safety critical standards by providing:

- Improved generation of C and C++ code follow MISRA guidelines and check to warn of modeling constructs to avoid, helping companies develop to coding standards based on MISRA
- New simplified execution framework that assists in documenting, verifying, and validating an application to meet safety critical standards
- ARINC 653 adaptor through APEX api for developing and architecting applications targeting ARINC 653 while leveraging IBM Rational Rhapsody traceability to requirements with IBM Rational DOORS to help automate safety certification

## **Complex test scenario specification**

As complexity of functionality of products increases, so can the test cases need to validate their behavior. Test cases may require loops or consider alternative test paths based on a condition to validate functionality. In addition, performance requirements may also need to be validated. IBM Rational Rhapsody TestConductor Add On V7.6 provides the ability to use interaction operators (such as opt, alt, loop, break, parallel, and consider) on sequence diagrams to specify test cases allowing complex test flows to be developed. Timing constructs can also be added to scenarios to assist in validating performance requirements of the design.

## **Testing on embedded target**

IBM Rational Rhapsody TestConductor Add On generates test code which is included in the generated executable which allows tests to be run independently with the results subsequently evaluated. This allows tests to be run on almost any embedded target.

## **Android application testing**

IBM Rational Rhapsody supports development of Android applications. IBM Rational Rhapsody TestConductor Add On V7.6 adds support for testing of Android applications allowing the existing features of visual test development using sequence diagrams, flowcharts or statecharts to be applied to Android applications.

## **Code coverage of test cases**

When executing IBM Rational Rhapsody TestConductor Add On test cases for the C language, code coverage of the test cases is computed which can be used to support the certification of an application for safety critical standards. Statement, Condition/Decision(CD), Modified Condition/Decision (MCDC) coverage is provided in the coverage analysis.

## **Documentation generation templates**

IBM Rational Rhapsody V7.6 provides systems engineers and software developers an IBM Rational Publishing Engine template for generation of a Software Design Document (SDD) to help automate the generation of documentation generation.

## **Improvement in usability and performance**

When you open a project with IBM Rational Rhapsody V7.6 you will notice a new look and feel to the diagrams and toolbars but that is only the start of the usability improvements added:

- New look and feel
- Change multiple element descriptions, tags or properties at once
- Improved differencing and merging of text and references

- Support for ordering on diagrams
- Improved auto completion assist when entering code
- Eclipse plug in workflow improvements to code synchronization and managing components
- On Demand loading of model element to help improve performance and resource consumption

### **Floating User Single Install license**

IBM Rational Rhapsody V7.6 will use Authorized User license metric and will change from Floating User to Floating User Single Install license metric.

### **Documentation on the web**

The documentation for IBM Rational Rhapsody V7.6 is no longer shipped with the product installation but available on the IBM Information Center to enable documentation to continue to be improved after release of the product and make the size of the installation file smaller. Users who wish to have a local copy of the documentation can download it and use it locally.

### **Section 508 of the U.S. Rehabilitation Act**

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Rational Rhapsody is capable as of July 4, 2011, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following website

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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### **Program number**

Program number	VRM	Program name
5724-x70	7.6.0	IBM Rational Rhapsody

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### **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>

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### **Publications**

No publications are shipped with this product.

The IBM Publications Center

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

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (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.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

- Disk space: 900 MB (one language); 1.5 GB full installation; Installation temporary disk space: 1 GB
- Memory: RAM: 512 MB (minimum); 1024 MB RAM (recommended)
- Processor: CPU: Pentium® 4, 3.00 GHz (minimum)

#### **Software requirements**

Operating systems

Linux®

- Red Hat Enterprise Linux (RHEL) 4.0 AS/ES x86-32
- Red Hat Enterprise Linux (RHEL) 5.0 Advanced Platform x86-32
- SUSE Linux Enterprise Server (SLES) 10.0 x86-32

Windows®

- Windows Vista Basic x86-32
- Windows Vista Enterprise x86-32
- Windows Vista Home Premium x86-32
- Windows 7 Starter x86-32
- Windows XP Home x86-32
- Windows 7 Ultimate x86-32
- Windows Server 2008 Enterprise Edition x86-32
- Windows Vista Business x86-32
- Windows XP Professional x86-32
- Windows 7 Professional x86-32
- Windows XP Professional with FDCC x86-32
- Windows 7 Enterprise x86-64
- Windows Server 2003 Enterprise Edition x86-32
- Windows 7 Enterprise x86-32
- Windows 7 Home Premium x86-32
- Windows Vista Professional x86-32
- Windows Server 2003 Standard Edition x86-32
- Windows Vista Ultimate x86-32

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

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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**

### **IBM Rational Rhapsody**

#### **Security, auditability, and control**

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

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## **Ordering information**

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

### **Product information**

Licensed function title	Product group	Product category
IBM Rational Modeler Rhapsody Corporate Edition	Design and Construction	Design and Construction
IBM Rational Rhapsody Architect for Software	Design and Construction	Design and Construction
IBM Rational Rhapsody Architect for Systems Engineers	Design and Construction	Design and Construction
IBM Rational Rhapsody Automatic Test Generation Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody Designer for Systems Engineers	Design and Construction	Design and Construction
IBM Rational Rhapsody Developer	Design and Construction	Design and Construction
IBM Rational Rhapsody Developer Rules Composer Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody Developer Rules Player Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody Developer for Ada	Design and Construction	Design and Construction
IBM Rational Rhapsody Developer for C++, C, and Java™	Design and Construction	Design and Construction
IBM Rational Rhapsody Gateway Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody Interfaces Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody TestConductor Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody Tools and Utilities Add On	Design and Construction	Design and Construction
IBM Rational Rhapsody for DoDAF, MODAF, and UPDM Add On	Design and Construction	Design and Construction

Program name	PID number	Charge unit description
IBM Rational Modeler Rhapsody Corporate Edition	5724-X70	FTL per Authorized User
IBM Rational Rhapsody Architect for Software	5724-X70	Per Authorized User
IBM Rational Rhapsody Architect for Software	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Architect for Systems Engineers	5724-X70	Per Authorized User
IBM Rational Rhapsody Architect for Systems Engineers	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Automatic Test Generation Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody Automatic Test Generation Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Designer for Systems Engineers	5724-X70	Per Authorized User
IBM Rational Rhapsody Designer for Systems Engineers	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Developer	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Developer	5724-X70	Per Authorized User
IBM Rational Rhapsody Developer Rules Composer Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Developer Rules Composer Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody Developer Rules Player Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody Developer Rules Player Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Developer for Ada	5724-X70	Per Authorized User
IBM Rational Rhapsody Developer for Ada	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Developer for C++, C, and Java	5724-X70	Per Authorized User
IBM Rational Rhapsody Developer for C++, C, and Java	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Gateway Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Gateway Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody Interfaces Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody Interfaces Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody TestConductor Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody TestConductor Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody Tools and Utilities Add On	5724-X70	Per Authorized User
IBM Rational Rhapsody Tools and Utilities Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody for DoDAF, MODAF, and UPDM Add On	5724-X70	Per Floating User Single Install
IBM Rational Rhapsody for DoDAF, MODAF, and UPDM Add On	5724-X70	Per Authorized User

## Charge metrics definitions

### 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.

### Floating User Single Install

Floating User Single Install is a unit of measure by which the program can be licensed. A Floating User is a person who is accessing the program at any particular point in time. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The program may be installed on any number of computers or servers, but if the Floating User simultaneously accesses more than one Install of the program, the Floating User requires a separate entitlement for each such Install. Licensee must obtain separate entitlements for each Floating User simultaneously accessing the program on each Install in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means.

**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.

### Passport Advantage program licenses

#### Rational Rhapsody

Part description	Part number
IBM Rational Rhapsody Architect for Software	
Rat1 Rhapsody Architect for Software Auth User Annual SW S&S Rnw1	E0773LL
Rat1 Rhapsody Architect for Software Auth User Init1 FT Lic+S&S 12 Mo	D09B4LL
Rat1 Rhapsody Architect for Software Auth User Lic + SW S&S 12 Mo	D09MULL
Rat1 Rhapsody Architect for Software Auth User SW S&S Reinststate 12 Mo	D09G5LL
Rat1 Rhapsody Architect for Software Auth User SubSq FT Lic+S&S 12 Mo	E0722LL
Rat1 Rhapsody Architect for Software FUSI Annual SW S&S Rnw1	E076WLL
Rat1 Rhapsody Architect for Software FUSI Init1 FT Lic+S&S 12 Mo	D09B6LL
Rat1 Rhapsody Architect for Software FUSI Lic + SW S&S 12 Mo	D09MMLL
Rat1 Rhapsody Architect for Software FUSI SW S&S Reinststate 12 Mo	D09FYLL
Rat1 Rhapsody Architect for Software FUSI SubSq FT Lic+S&S 12 Mo	E0724LL
IBM Rational Rhapsody Automatic Test Generation Add On	
Rat1 Rhapsody Auto Test Gen AO Auth User Annual SW S&S Rnw1	E0789LL
Rat1 Rhapsody Auto Test Gen AO Auth User Init1 FT Lic+S&S 12 Mo	D09ARLL
Rat1 Rhapsody Auto Test Gen AO Auth User Lic + SW S&S 12 Mo	D09P0LL
Rat1 Rhapsody Auto Test Gen AO Auth User SW S&S Reinststate 12 Mo	D09HBLL
Rat1 Rhapsody Auto Test Gen AO Auth User SubSq FT Lic+S&S 12 Mo	E071PLL
Rat1 Rhapsody Auto Test Gen AO Float User SI Annual SW S&S Rnw1	E0780LL
Rat1 Rhapsody Auto Test Gen AO Float User SI Init1 FT Lic+S&S 12 Mo	D09AQLL
Rat1 Rhapsody Auto Test Gen AO Float User SI Lic + SW S&S 12 Mo	D09NRLL
Rat1 Rhapsody Auto Test Gen AO Float User SI SW S&S Reinststate 12 Mo	D09H2LL

Rat1 Rhapsody Auto Test Gen AO Float User SI SubSq FT Lic+S&S 12 Mo	E071NLL
IBM Rational Rhapsody Developer Rules Composer Add On Rat1 Rhapsody Dev Rule Cmp AO Auth User Annual SW S&S Rnw1	E078ALL
Rat1 Rhapsody Dev Rule Cmp AO Auth User Init1 FT Lic+S&S 12 Mo	D09B2LL
Rat1 Rhapsody Dev Rule Cmp AO Auth User Lic + SW S&S 12 Mo	D09P1LL
Rat1 Rhapsody Dev Rule Cmp AO Auth User SW S&S Reinstate 12 Mo	D09HCLL
Rat1 Rhapsody Dev Rule Cmp AO Auth User SubSq FT Lic+S&S 12 Mo	E0720LL
Rat1 Rhapsody Dev Rule Cmp AO Float User SI Annual SW S&S Rnw1	E077SLL
Rat1 Rhapsody Dev Rule Cmp AO Float User SI Init1 FT Lic+S&S 12 Mo	D09B0LL
Rat1 Rhapsody Dev Rule Cmp AO Float User SI Lic + SW S&S 12 Mo	D09NILL
Rat1 Rhapsody Dev Rule Cmp AO Float User SI SW S&S Reinstate 12 Mo	D09GULL
Rat1 Rhapsody Dev Rule Cmp AO Float User SI SubSq FT Lic+S&S 12 Mo	E071YLL
IBM Rational Rhapsody for DoDAF, MODAF, and UPDM Add On Rat1 Rhapsody D, M, U AO Auth User Annual SW S&S Rnw1	E077QLL
Rat1 Rhapsody D, M, U AO Auth User Init1 FT Lic+S&S 12 Mo	D09AVLL
Rat1 Rhapsody D, M, U AO Auth User Lic + SW S&S 12 Mo	D09NGLL
Rat1 Rhapsody D, M, U AO Auth User SW S&S Reinstate 12 Mo	D09GSLl
Rat1 Rhapsody D, M, U AO Auth User SubSq FT Lic+S&S 12 Mo	E071TLL
Rat1 Rhapsody D, M, U AO Float User SI Annual SW S&S Rnw1	E0782LL
Rat1 Rhapsody D, M, U AO Float User SI Init1 FT Lic+S&S 12 Mo	D09ATLL
Rat1 Rhapsody D, M, U AO Float User SI Lic + SW S&S 12 Mo	D09NTLL
Rat1 Rhapsody D, M, U AO Float User SI SW S&S Reinstate 12 Mo	D09H4LL
Rat1 Rhapsody D, M, U AO Float User SI SubSq FT Lic+S&S 12 Mo	E071RLL
IBM Rational Rhapsody Gateway Add On Rat1 Rhapsody Getway Auth User Annual SW S&S Rnw1	E078GLL
Rat1 Rhapsody Getway Auth User Init1 FT Lic+S&S 12 Mo	D09AZLL
Rat1 Rhapsody Getway Auth User Lic + SW S&S 12 Mo	D09P7LL
Rat1 Rhapsody Getway Auth User SW S&S Reinstate 12 Mo	D09HILL
Rat1 Rhapsody Getway Auth User SubSq FT Lic+S&S 12 Mo	E071XLL
Rat1 Rhapsody Getway Float User SI Annual SW S&S Rnw1	E077ULL
Rat1 Rhapsody Getway Float User SI Init1 FT Lic+S&S 12 Mo	D09AXLL
Rat1 Rhapsody Getway Float User SI Lic + SW S&S 12 Mo	D09NKLL
Rat1 Rhapsody Getway Float User SI SW S&S Reinstate 12 Mo	D09GWLL
Rat1 Rhapsody Getway Float User SI SubSq FT Lic+S&S 12 Mo	E071VLL
IBM Rational Rhapsody Developer Rules Player Add On Rat1 Rhapsody Plyr Rule Cmp AO Auth User Annual SW S&S Rnw1	E076VLL
Rat1 Rhapsody Plyr Rule Cmp AO Auth User Init1 FT Lic+S&S 12 Mo	D09C3LL
Rat1 Rhapsody Plyr Rule Cmp AO Auth User Lic + SW S&S 12 Mo	D09MLLL
Rat1 Rhapsody Plyr Rule Cmp AO Auth User SW S&S Reinstate 12 Mo	D09FXLL
Rat1 Rhapsody Plyr Rule Cmp AO Auth User SubSq FT Lic+S&S 12 Mo	E0731LL
Rat1 Rhapsody Plyr Rule Cmp AO Float User SI Annual SW S&S Rnw1	E077MLL
Rat1 Rhapsody Plyr Rule Cmp AO Float User SI Init1 FT Lic+S&S 12 Mo	D09BPLL
Rat1 Rhapsody Plyr Rule Cmp AO Float User SI Lic + SW S&S 12 Mo	D09NDLL

Rat1 Rhapsody Plyr Rule Cmp AO Float User SI SW S&S Reinstate 12 Mo	D09GPLL
Rat1 Rhapsody Plyr Rule Cmp AO Float User SI SubSq FT Lic+S&S 12 Mo	E072MLL
IBM Rational Rhapsody Developer for Ada	
Rat1 Rhapsody Dev Ada Auth User Annual SW S&S Rnw1	E078HLL
Rat1 Rhapsody Dev Ada Auth User Init1 FT Lic+S&S 12 Mo	D09BULL
Rat1 Rhapsody Dev Ada Auth User Lic + SW S&S 12 Mo	D09P8LL
Rat1 Rhapsody Dev Ada Auth User SW S&S Reinstate 12 Mo	D09HJLL
Rat1 Rhapsody Dev Ada Auth User SubSq FT Lic+S&S 12 Mo	E072ULL
Rat1 Rhapsody Dev Ada Float User SI Annual SW S&S Rnw1	E077GLL
Rat1 Rhapsody Dev Ada Float User SI Init1 FT Lic+S&S 12 Mo	D09BULL
Rat1 Rhapsody Dev Ada Float User SI Lic + SW S&S 12 Mo	D09N7LL
Rat1 Rhapsody Dev Ada Float User SI SW S&S Reinstate 12 Mo	D09GILL
Rat1 Rhapsody Dev Ada Float User SI SubSq FT Lic+S&S 12 Mo	E072RLL
IBM Rational Rhapsody Developer for C++, C, and Java	
Rat1 Rhapsody Dev C++ Java Auth User Annual SW S&S Rnw1	E078LLL
Rat1 Rhapsody Dev C++ Java Auth User Init1 FT Lic+S&S 12 Mo	D09BVLL
Rat1 Rhapsody Dev C++ Java Auth User Lic + SW S&S 12 Mo	D09PCLL
Rat1 Rhapsody Dev C++ Java Auth User SW S&S Reinstate 12 Mo	D09HNLL
Rat1 Rhapsody Dev C++ Java Auth User SubSq FT Lic+S&S 12 Mo	E072TLL
Rat1 Rhapsody Dev C++ Java Float User SI Annual SW S&S Rnw1	E079DLL
Rat1 Rhapsody Dev C++ Java Float User SI Init1 FT Lic+S&S 12 Mo	D09C0LL
Rat1 Rhapsody Dev C++ Java Float User SI Lic + SW S&S 12 Mo	D09Q4LL
Rat1 Rhapsody Dev C++ Java Float User SI SW S&S Reinstate 12 Mo	D09IFLL
Rat1 Rhapsody Dev C++ Java Float User SI SubSq FT Lic+S&S 12 Mo	E072YLL
IBM Rational Rhapsody Interfaces Add On	
Rat1 Rhapsody Interface Auth User Annual SW S&S Rnw1	E073ZLL
Rat1 Rhapsody Interface Auth User Init1 FT Lic+S&S 12 Mo	D09ALLL
Rat1 Rhapsody Interface Auth User Lic + SW S&S 12 Mo	D09JQLL
Rat1 Rhapsody Interface Auth User SW S&S Reinstate 12 Mo	D09D1LL
Rat1 Rhapsody Interface Auth User SubSq FT Lic+S&S 12 Mo	E071JLL
Rat1 Rhapsody Interface Float User SI Annual SW S&S Rnw1	E078ULL
Rat1 Rhapsody Interface Float User SI Init1 FT Lic+S&S 12 Mo	D09ANLL
Rat1 Rhapsody Interface Float User SI Lic + SW S&S 12 Mo	D09PKLL
Rat1 Rhapsody Interface Float User SI SW S&S Reinstate 12 Mo	D09HWLL
Rat1 Rhapsody Interface Float User SI SubSq FT Lic+S&S 12 Mo	E071LLL
IBM Rational Rhapsody Architect for Systems Engineers	
Rat1 Rhapsody Arch Sys Eng Auth User Annual SW S&S Rnw1	E0794LL
Rat1 Rhapsody Arch Sys Eng Auth User Init1 FT Lic+S&S 12 Mo	D0981LL
Rat1 Rhapsody Arch Sys Eng Auth User Lic + SW S&S 12 Mo	D09PVLL
Rat1 Rhapsody Arch Sys Eng Auth User SW S&S Reinstate 12 Mo	D09I6LL
Rat1 Rhapsody Arch Sys Eng Auth User SubSq FT Lic+S&S 12 Mo	E06YZLL
Rat1 Rhapsody Arch Sys Eng Float User SI Annual SW S&S Rnw1	E078YLL
Rat1 Rhapsody Arch Sys Eng Float User SI Init1 FT Lic+S&S 12 Mo	D098LLL
Rat1 Rhapsody Arch Sys Eng Float User SI Lic + SW S&S 12 Mo	D09PPLL
Rat1 Rhapsody Arch Sys Eng Float User SI SW S&S Reinstate 12 Mo	D09I0LL

Rat1 Rhapsody Arch Sys Eng Float User SI SubSq FT Lic+S&S 12 Mo	E06ZJLL
IBM Rational Rhapsody Designer for Systems Engineers	
Rat1 Rhapsody Designer Sys Eng Auth User Annual SW S&S Rnw1	E078SLL
Rat1 Rhapsody Designer Sys Eng Auth User Init1 FT Lic+S&S 12 Mo	D097ZLL
Rat1 Rhapsody Designer Sys Eng Auth User Lic + SW S&S 12 Mo	D09PILL
Rat1 Rhapsody Designer Sys Eng Auth User SW S&S Reinstate 12 Mo	D09HULL
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Rat1 Rhapsody Designer Sys Eng Float User SI Annual SW S&S Rnw1	E078TLL
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Rat1 Rhapsody Designer Sys Eng Float User SI Lic + SW S&S 12 Mo	D09PJLL
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Rat1 Rhapsody TestConductor AO Auth User Init1 FT Lic+S&S 12 Mo	D097XLL
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Rat1 Rhapsody TestConductor AO Auth User SubSq FT Lic+S&S 12 Mo	E06YVLL
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Rat1 Rhapsody TestConductor AO Float User SI Init1 FT Lic+S&S 12 Mo	D097YLL
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Rat1 Rhapsody TestConductor AO Float User SI SW S&S Reinstate 12 Mo	D09IALL
Rat1 Rhapsody TestConductor AO Float User SI SubSq FT Lic+S&S 12 Mo	E06YWLL
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Rat1 Rhapsody Tools Utilities AO Auth User SW S&S Reinstate 12 Mo	D09IKLL
Rat1 Rhapsody Tools Utilities AO Auth User SubSq FT Lic+S&S 12 Mo	E06YTLL
Rat1 Rhapsody Tools Utilities AO Float User SI Annual SW S&S Rnw1	E079NLL
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Rat1 Rhapsody Tools Utilities AO Float User SI Lic + SW S&S 12 Mo	D09QELL
Rat1 Rhapsody Tools Utilities AO Float User SI SW S&S Reinstate 12 Mo	D09IQLL
Rat1 Rhapsody Tools Utilities AO Float User SI SubSq FT Lic+S&S 12 Mo	E06YULL
IBM Rational Rhapsody Developer	
Rat1 Rhapsody Developer Auth User Annual SW S&S Rnw1	E078NLL
Rat1 Rhapsody Developer Auth User Init1 FT Lic+S&S 12 Mo	D097TLL
Rat1 Rhapsody Developer Auth User Lic + SW S&S 12 Mo	D09PELL
Rat1 Rhapsody Developer Auth User SW S&S Reinstate 12 Mo	D09HQLL
Rat1 Rhapsody Developer Auth User SubSq FT Lic+S&S 12 Mo	E06YRLL

Ratl Rhapsody Developer Float User SI Annual SW S&S Rnw1	E079QLL
Ratl Rhapsody Developer Float User SI Initl FT Lic+S&S 12 Mo	D097ULL
Ratl Rhapsody Developer Float User SI Lic + SW S&S 12 Mo	D09QGLL
Ratl Rhapsody Developer Float User SI SW S&S Reinstate 12 Mo	D09ISLL
Ratl Rhapsody Developer Float User SI SubSq FT Lic+S&S 12 Mo	E06YSLL
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## Passport Advantage trade-up licenses

### IBM Rational Rhapsody

Precursor product	Trade-up product	Trade-up part number
IBM Rational Rhapsody Designer for Systems Engineers Rational Rose Technical Developer FL	Ratl Rhap Degnr Sys Engrns FUSI fr Rose TechDevFL Trdup Lic + SW S&S 12 Mo	D0CA6LL
Rational Rose Technical Developer AU	Ratl Rhap Designer Sys Engrns AU fr Rose TechDevAU Trdup Lic + SW S&S 12 Mo	D0CA8LL
Rational Rose Modeler AU	Ratl Rhap Dsgnr Sys Engrns AU fr Ratl Rose Mdlr AU Trdup Lic + SW S&S 12 Mo	D0CA7LL
Rational Rose Modeler FL	Ratl Rhap Dsgnr Sys Engrns FUSI f Ratl Rose MdlrFL Trdup Lic + SW S&S 12 Mo	D0CA5LL
IBM Rational Rhapsody Designer for Systems Engineers per Authorized User	Ratl Rhapsody Designer Sys Eng Float User SI AU Trdup Lic + SW S&S 12 Mo	D09RBLL
IBM Rational Rhapsody Architect for Systems Engineers Rational Rose Modeler AU	Ratl Rhap Arch Sys Engrns AU fr Ratl Rose Mdlr AU Trdup Lic + SW S&S 12 Mo	D0CA4LL
Rational Rose Modeler FL	Ratl Rhap Arch Sys Engrns FUSI fr Ratl Rose Mdlr FL Trdup Lic + SW S&S 12 M	D0CA3LL
IBM Rational Rhapsody Architect for Systems Engineers per Authorized User	Ratl Rhapsody Arch Sys Eng Float User SI AU Trdup Lic + SW S&S 12 Mo	D09QPLL
IBM Rational Rhapsody Interfaces Add On IBM Rational Rhapsody Interfaces Add On per Authorized User	Ratl Rhapsody Interface Float User SI from AU Trdup Lic + SW S&S 12 Mo	D09QRLL
IBM Rational Rhapsody TestConductor Add On IBM Rational Rhapsody TestConductor Add On per Authorized User	Ratl Rhapsody TestConductor AO Float User SI fr AU Trdup Lic + SW S&S 12 Mo	D09R4LL
IBM Rational Rhapsody Developer IBM Rational Rhapsody Developer per Authorized User	Ratl Rhapsody Developer Float User SI fr AU Trdup Lic + SW S&S 12 Mo	D09QVLL
IBM Rational Rhapsody Tools and Utilities Add On IBM Rational Rhapsody Tools and Utilities Add On per Authorized User	Ratl Rhapsody Tools Utilities AO FloatUser SI f AU Trdup Lic + SW S&S 12 Mo	D09R2LL

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Rational Rose Developer for Java or Rose for Visual Studio AU	Ratl RDev C C++Java AU fr RoseDev Java or Rose VS Trdup Lic + SW S&S 12 Mo	D0CA0LL
Rational Rose Developer for Java or Rose for Visual Studio FL	Ratl RDev C C++Java FUSI f RoseDev Java or Rose VS Trdup Lic + SW S&S 12 Mo	D0C9WLL
Rational Rose Enterprise AU	Ratl Rhap Dev for C C++Java AU fr RRose Enterp AU Trdup Lic + SW S&S 12 Mo	D0CA1LL
Rational Rose® Technical Developer AU	Ratl Rhap Dev for C C++Java AU fr RRose TechDev AU Trdup Lic + SW S&S 12 Mo	D0CA2LL
Rational Rose Enterprise FL	Ratl Rhap Dev for C C++Java FUSI f RRose Entrp FL Trdup Lic + SW S&S 12 Mo	D0C9XLL
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Rational Rose Modeler AU	Ratl Rhap Dev forC C++Java AU fr Ratl Rose Mdlr AU Trdup Lic + SW S&S 12 Mo	D0C9ZLL
Rational Rose Modeler FL	Ratl Rhap Dev forC C++Java FUSI fr RatlRose Md1 FL Trdup Lic + SW S&S 12 Mo	D0C9VLL
IBM Rational Rhapsody Developer for C++, C, and Java per Authorized User	Ratl Rhapsody Dev C++ Java FUSI fr AU Trdup Lic + SW S&S 12 Mo	D09QWLL
IBM Rational Rhapsody Developer Rules Composer Add On		
IBM Rational Rhapsody Developer Rules Composer Add On per Authorized User	Ratl Rhapsody Dev Rule Cmp AO Float User SI AU Trdup Lic + SW S&S 12 Mo	D09QQLL
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Rational Rose Modeler AU	Ratl Rhap Arch for SW AU fr Ratl Rose Modeler AU Trdup Lic + SW S&S 12 Mo	D0C9MLL
Rational Rose Enterprise FL	Ratl Rhap Arch for SW FUSI fr Ratl Rose Entrprs FL Trdup Lic + SW S&S 12 Mo	D0C9SLL
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IBM Rational Rhapsody Gateway Add On per Authorized User	User SI AU Trdup Lic + SW S&S 12 Mo	

### Passport Advantage supply

Program name/description	Part number
Ratl Rhapsody Arch for SW V7.6.0	
Ratl Rhapsody Arch for SW Other V7.6.0 Non-Cryptographic DVD Media Pack Mu	BT0EHML

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### IBM Rational Architect for Software V7.6.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Rhapsody Architect for Software per Authorized User	Ratl Rhapsody Arch for SW Other V7.6.0 Non-Cryptographic DVD Media Pack Mu	BT0EHML
IBM Rational Rhapsody Architect for Software per Floating User Single Install	Ratl Rhapsody Arch for SW Other V7.6.0 Non-Cryptographic DVD Media Pack Mu	BT0EHML

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