



IBM Rational Programming Patterns V8.5 accelerates and helps secure the transition to the Rational Software Delivery Platform

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At a glance

Rational® Programming Patterns V8.5 uses Pacbase customer investment by modernizing the pattern-driven, development-paradigm and the Enterprise Wide Repository services within the latest IBM® strategic delivery platform. It provides tools to migrate at low cost, by limiting the non-regression tests and the re-training of the Pacbase developers.

Overview

Rational Programming Patterns V8.5 provides significant features that help secure the migration from VisualAge® Pacbase to the adoption of the Software Delivery Platform.

Version 8.5

- Improves large repository migration performance through model entities dispatching mechanisms.
- Takes advantage of sparse loading and load-with dependency features.
- Optimizes memory with serialization capability and display filters.

Migration process industrialization can now be enhanced by improving removal of COBOL source code differences. This automates controls and clarifies messages.

Adoption by users is facilitated by ergonomics improvements of design entity editors and source code editors, as well as enhancements to impact analysis tooling.

Source Code Quality Control capabilities are enhanced by providing user rules for creation facility for design entities, and COBOL source code.

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

Key prerequisites

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

Planned availability date

- September 12, 2012: Electronic availability
- October 1, 2012: Media availability

Description

Performance enhancements

Memory consumption is drastically reduced through a new technology based on an indexation technology to store Rational Programming Patterns metadata on Eclipse client.

Memory management on Eclipse client is improved to reduce the volume of data through a new way of storing the references between generated and design files.

With a new loading method, you can limit the number of the loaded artifacts to the artifacts required by one or more selected artifacts. The selected artifacts can be design files or files that contain the source of an instance. The artifacts are loaded from the Rational Team Concert™ server into your local workspace, where they constitute a consistent set of data.

In addition, the selection wizards of the Design View display only the instances that can be called, based on the project dependencies. The instances displayed are therefore limited to the relevant instances, which significantly reduces their numbers.

It is now possible to vertically split libraries because the import functionality will create several projects from a split library during the migration process. According to the entries of the MIBR and MIBA procedures, several projects (one by type) are created for one library.

A new "Design Explorer" filter dialog can be opened with the standard Eclipse tool bar menu (inverted triangle in the Design ExplorerView). This dialog provides two types of criteria:

- Context criterion -- Project, domain, and project level in the location diagram
- Artifact criterion -- Name pattern and type of design artifacts

The active filter can be disabled without changing its definition.

Migration automation improvements

Rational Programming Patterns scmtool command is extended to associate language definitions and data set definitions with zFiles and zFolders in the software configuration management (SCM).

The Macro editor becomes a COBOL text editor. The different elements of the program (working-storage area and procedure division) are placed through the items located in the COBOL left margin (Column 1 to 6) and the parameters are indicated on comments lines. In the left margin, the identifiers are specified as locations in the working, function and subfunction codes and line number. On the comment line, the type of condition and level of a sub-function are indicated.

The conditions in a function and subfunction are typed and associated with the first line of the processing. They no longer appear in the Macro body as COBOL code. Similarly, all the labels derived from these conditions (like the -900 related to ELSE) and the end tags (-FN) are no longer visible. All these elements are generated in the COBOL code only when the program is generated.

The migration help batch command now generates in the user folder three new csv files to allow a global vision (list of all the compared files, summary of all differences

and the difference templates, list of all differences). In the GUI, in the error view, each migration warning also shows the template number.

The generation links are displayed from the subreferences of the .cbl files and the Screen maps.

User entities relations (-CR) are now in the scope of Pacbase migration and are included in sub and super references mechanism.

The new DOT micropattern puts a dot at the end of the first significant line located before the micropattern. It is used during the migration to prevent losing the notion of '99BL' in Pacbase XR micropattern. In addition, several micro-patterns are enhanced.

Impact analysis enhancements

In order to have a -X equivalent for macros (read mode), a list of the entities (program, standard screen, client, or server) calling the selected macro with its different parameters is now proposed.

A new Search page allows new queries to extract all Rational Programming Patterns server artifacts (design and generated artifacts). The results of these queries are displayed in a new result server search view.

Usability enhancements

Contextual menus in editable tables of the design editors are now available. They contain the actions that were previously accessed through buttons only. . In Macros, fragments also facilitate the input in the editor.

In addition, in each editable table of the design editors, for all the combination boxes, only the value of the item is now displayed. Its label is displayed on a tooltip which appears users hover the mouse over an item.

When a dialog box is displayed to select an entity, the possibility is now given to filter the entities on the code and on the label.

The Generated Code Structure view readability is enhanced by displaying the titles of the COBOL Pac generated and user functions, derived from the comments, which precede the functions.

The Macro editor becomes a COBOL text editor. The different elements of the program (working-storage area and procedure division) are placed through the items located in the COBOL left margin (Column 1 to 6) and the parameters are indicated on comments lines. In the left margin, the identifiers are specified as locations in the working, function and subfunction codes and line number.

On the comment line, the type of condition and level of a subfunction are indicated. The conditions in a function and subfunction are typed and associated with the first line of the processing. They no longer appear in the Macro body as COBOL code. Similarly, all the labels derived from these conditions (like the -900 related to ELSE) and the end tags (-FN) are no longer visible. All these elements will be generated in the COBOL code only when the program is generated.

The "Macro code structure" view shows the hierarchy of different processing, with nested sub-functions. A menu in the toolbar gives the possibility to choose the skeleton to be displayed in the tree.

In the -CS of screens or servers, it is now possible to delete a reference to an entity like DBD without deleting the entire -CS line. This can be possible in the selection list dialog, selecting the radio button "no entity selected".

A new "Target Multiple Types" function allows associating a Meta Entity Type to several base types. A Meta Entity Type can now extend several entity types.

Quality control

New rules were added for the quality control:

- For the design (control that the external name of an entity is the same as the code)
- For the COBOL (control that there are less than x lines of specific COBOL lines in the source)

Multicultural support and translation information for IBM software can be found online at

<http://www.ibm.com/software/globalization/scorecard/index.html>

Availability of national languages

Product description	Language	General availability date
Rational Programming Patterns v8.5.0	Multilingual (French, English)	October 1, 2012

Program number

Program number	VRM	Program name
5725-H03	8.5.0	IBM Rational Programming Patterns

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 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.

Technical information

Specified operating environment

Hardware requirements

Windows™

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1314996851304&osPlatform=Windows>

AIX®

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1314996851304&osPlatform=AIX>

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Software requirements

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AIX

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Linux

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1314996851304&osPlatform=Linux>

z/OS

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1314996851304&osPlatform=z/OS>

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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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

Rational Programming Patterns

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.

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 Programming Patterns	Rational Other	Rational Other
Program name	PID number	Charge unit description
IBM Rational Programming Patterns	5725-H03	Per Floating User
IBM Rational Programming Patterns	5725-H03	Per Floating User for System z
IBM Rational Programming Patterns	5725-H03	Per Authorized User
IBM Rational Programming Patterns	5725-H03	Per Authorized User for System z

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 accessing 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.

Floating User

Floating User 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

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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

IBM Rational Programming Patterns

Part description	Part number
IBM Rational Programming Patterns	
RPP Per Floating User Single Install Annual SW S&S Rnw1	E0AYMLL
RPP Per Floating User Single Install Init1 FT Lic+S&S 12 Mo	D0H6GLL
RPP Per Floating User Single Install Lic + SW S&S 12 Mo	D0H69LL
RPP Per Floating User Single Install SW S&S Reinstate 12 Mo	D0H6ALL
RPP Per Floating User Single Install Subsq FT Lic+S&S 12 Mo	E0AYQLL
Rat1 Programming Patterns Per Authorized User Annual SW S&S Rnw1	E0AYFLL
Rat1 Programming Patterns Per Authorized User Init1 FT Lic+S&S 12 Mo	D0H68LL
Rat1 Programming Patterns Per Authorized User Lic + SW S&S 12 Mo	D0H5WLL
Rat1 Programming Patterns Per Authorized User SW S&S Reinstate 12 Mo	D0H5XLL
Rat1 Programming Patterns Per Authorized User Subsq FT Lic+S&S 12 Mo	E0AYLLL

Passport Advantage trade-up licenses

IBM Rational Programming Patterns

Precursor product	Trade-up product	Trade-up part number
IBM Rational Programming Patterns		
RPP Authorized User	RPP Per Floating User from RPP Auth User Trade Up Lic + SW S&S 12 Mo	D0H6BLL

Passport Advantage supply

Program name/description	Part number
Rational Programming Patterns V8.5.0	
IBM RATIONAL PROGRAMMING PATTERNS V8.5 MEDIA PACK	BT0HHML

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Rational Programming Patterns V8.5.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Programming Patterns per Authorized User	IBM RATIONAL PROGRAMMING PATTERNS V8.5 MEDIA PACK	BT0HHML
IBM Rational Programming Patterns per Authorized User for System z	IBM RATIONAL PROGRAMMING PATTERNS V8.5 MEDIA PACK	BT0HHML
IBM Rational Programming Patterns per Floating User Single Install	IBM RATIONAL PROGRAMMING PATTERNS V8.5 MEDIA PACK	BT0HHML
IBM Rational Programming Patterns per Floating User Single Install for System z	IBM RATIONAL PROGRAMMING PATTERNS V8.5 MEDIA PACK	BT0HHML

Cross-platform products

Cross-platform products for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z® servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise order from the other set of 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 Programming Patterns

Part description	Part number
IBM Rational Programming Patterns RPP Per Float.User Single Install for System z Annual SW S&S Rnw1	E0AYNLL
RPP Per Float.User Single Install for System z Initl FT Lic+S&S 12 Mo	D0H6HLL
RPP Per Float.User Single Install for System z Lic + SW S&S 12 Mo	D0H6CLL
RPP Per Float.User Single Install for System z SW S&S Reinstate 12 Mo	D0H6DLL
RPP Per Float.User Single Install for System z Subsq FT Lic+S&S 12 Mo	E0AYRLL
Ratl Programming Patterns Per Auth.User for System z Annual SW S&S Rnw1	E0AYJLL
Ratl Programming Patterns Per Auth.User for System z Initl FT Lic+S&S 12 Mo	D0H6FLL
Ratl Programming Patterns Per Auth.User for System z Lic + SW S&S 12 Mo	D0H64LL
Ratl Programming Patterns Per Auth.User for System z SW S&S Reinstate 12 Mo	D0H65LL
Ratl Programming Patterns Per Auth.User for System z Subsq FT Lic+S&S 12 Mo	E0AYPLL

Cross-platform product for use on System z IFL engines

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Trade-up licenses for cross-platform products

IBM Rational Programming Patterns

Precursor product	Trade-up product	Part number
IBM Rational Programming Patterns		
RPP Auth User for sys z	RPP Per Float.User Sys z fr RPP AUZ Trade Up Lic + SW S&S 12 Mo	D0H6ELL

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This software license includes Software Subscription and Support (also referred to as Software Maintenance).

License Information form number(s)

Program name	Program number	Form number
Rational Programming Patterns	5725-H03	L-GVAN-8ULBEJ

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

Limited warranty applies

Yes

Limited warranty

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Volume orders (IVO)

No

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System i Software Maintenance applies

No

Educational allowance available

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L3R 2Z1

Reference: AE001

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