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## **PathMATE Engine Version 8.3.0**

### **Release Notes**

September 14, 2011

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# 1. Introduction

## Online Documentation

PathMATE help is available from the Eclipse Help system - see the PathMATE topics under the Eclipse environment Help->Help Contents.

Additional Online product documentation and technical information may be found in the doc subdirectory of the base PathMATE installation. The documentation is stored in Adobe Acrobat (PDF) format. An Acrobat reader can be downloaded free of charge from [www.adobe.com](http://www.adobe.com).

## Demo

In addition to the product demo available from [www.pathfindermda.com](http://www.pathfindermda.com), be sure to see the "Quick Start" guides available for supported editors, located in the product install doc subdirectory

- QuickStartGuide\_RSM.pdf (for RSM and RSA)
- QuickStartGuide\_Rhapsody.pdf
- QuickStartGuide\_Rose.pdf
- QuickStartGuide\_Topcased.pdf

## PathMATE Language Maps

The PathMATE installation includes the PathMATE C, C++, and JAVA Transformation Maps by default. The Release Notes for these maps may be found in the doc subdirectory of the base PathMATE installation

- PathMATEMapCReleaseNotes.pdf
- PathMATEMapCppReleaseNotes.pdf
- PathMATEMapJavaReleaseNotes.pdf

# 2. Technical Support

Pathfinder Solutions Technical Support  
Telephone: 888-662-7284 x103  
Email: [support@pathfindermda.com](mailto:support@pathfindermda.com)

### **3. Compatibility**

This release of PathMATE is compatible with the following UML Editors:

Rhapsody 7.5.x

IBM Rational Software Modeler 8.0

IBM Rational Rose 2003 and later

Topcased 4.0

## 4. Impact to Existing Projects

### Prior to Version 8.3.0

#### ***Software Mechanisms Update***

The Software Mechanisms domain has been updated with this release, to include two additional services. Projects that reference the default version of Software Mechanisms while using custom maps will need to update the corresponding code to avoid compilation errors. For more information please reference the Release Notes for the corresponding language.

#### ***PathMATE Profile Location for Rhapsody Models.***

Many projects prior to PathMATE 8.3.0 used a hardcoded path to the PathMATE Rhapsody profile and support models. These paths will need to be updated in order to load the associated model files. Additionally it is recommended to use the new environment variable that PathMATE adds to the system, PATHMATE\_RHAPSODY\_CONFIG. For more information see REQ02302 and REQ02303.

#### ***PathMATE Default Installation Directory Changed.***

As of PathMATE 8.3.0 the default directory changed. As such, any projects using this directory to install PathMATE will need to update any hardcoded references such as those in build/test scripts.

### Prior to Version 8.1.0

#### ***RSx Profile***

RSx projects using PathMATE prior to the 8.1.0 release will be prompted to migrate the PathMATE Profile after the upgrade. This is a onetime process, as the 8.1.0 release upgrades the Profile from version 39 to 40 (in regards to REQ02125).

### Prior to Version 7.1.0

#### ***Licensing***

Releases of PathMATE 7.1.0 and higher use the Reprise License Manager to license the product and offer greater flexibility in licensing. If you were using a previous version, you will need to request a new license.

See the PathMATE Installation Guide in `c:\pathmate\doc\Installation_Guide.pdf` for detailed instructions on how to request a PathMATE license.

## 5. New Features

### Version 8.3.0

#### Common

#### **REQ02308 - BinaryInstanceLoading Services Added to the SoftwareMechanisms Domain**

The binary instance loading services LoadBinaryInstanceData and SendBinaryInstanceData were added to the Software Mechanisms Domain models for:

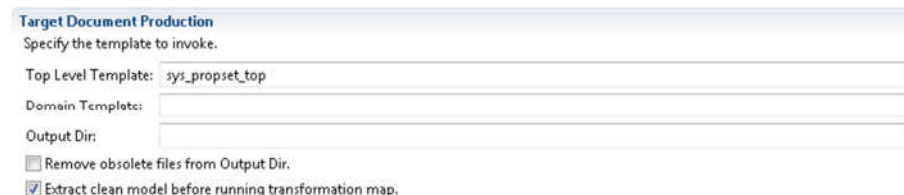
- Rational Software Architect
- Rational Rhapsody
- Topcased

#### Eclipse Integration

#### **REQ02305 - Add Re-extract model option to Pathplat Editor**

With the new PathMATE Engine feature to carry forward model extraction from the previous transformation (REQ02301) the ability to specify this via the Pathplat editor was added.

The default option is to re-extract the model (checked).



#### **REQ02310 - Eclipse Upgraded to 3.6 (Helios)**

The version of Eclipse bundled with PathMATE has been upgraded from 3.4 to 3.6.1 (Helios).

#### **REQ02311 – CDT Bundled with PathMATE’s Eclipse Installation**

The PathMATE installation of Eclipse now includes the Eclipse CDT (C/C++ Development Tooling) Project providing an IDE for building C and C++ projects using GNU tools.

#### Engine

#### **REQ02301 - Option to Not Re-extract the Model**

PathMATE now provides the ability to carry forward model-extractions and modifications from one transformation to the next.

In the Pathplat file editor a check-box option has been added to transformation options to allow the developer to specify whether to re-

extract the model or not. Please note, that the default value of the "re-extract" option is set to true for backwards compatibility.

This provides the benefit of reducing transformation time through reducing the number of times model extraction and common pre-processing occurs

### **PathMATE Installer**

#### **REQ02302 - Installer Adds PATHMATE\_RHAPSODY\_CONFIG Environment Variable**

The PathMATE installer now adds a system environment variable, PATHMATE\_RHAPSODY\_CONFIG which points to the <installation directory>\config\rhapsody\pathmate\PathMATE\_rpy.

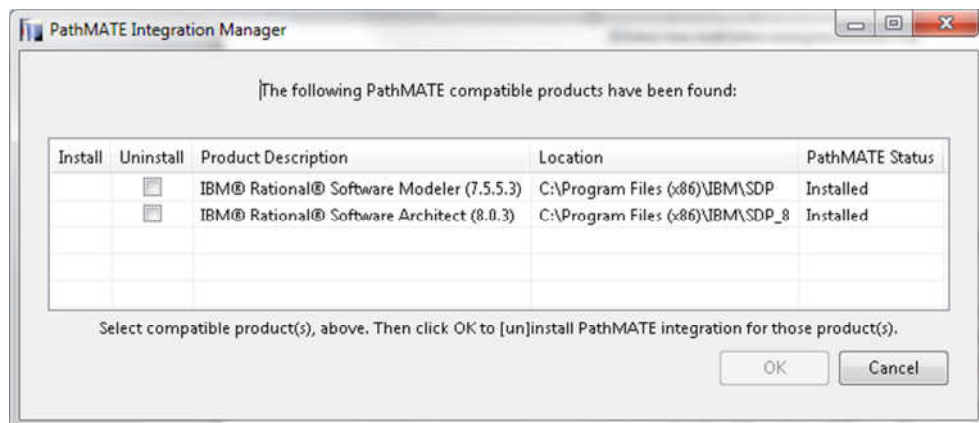
When utilized in a Rhapsody Model this will allow models to reference the installed PathMATE profile and provided domain sbs files, regardless of where the tool was installed.

#### **REQ02304 - Default Installation Directory Changed**

The default installation directory for PathMATE was changed from C:\pathmate to C:\%ProgramFiles%\PathMATE

#### **REQ02306 - New Integration Manager**

The old PathMATE RSx "Installation Manager" has been replaced by the new "Integration Manager" which has been simplified and takes significantly less time to run.



#### **REQ02307 - PathMATE Regression Suite Added to Installer**

The PathMATE Regression test suite "TestSuite7.0" is now included with PathMATE installation. It is located at <PathMATE installation directory>/TestSuite7.0 and includes the .project file to facilitate its importation into Eclipse work-spaces.

### **Rhapsody Integration**

#### **REQ02303 - Sample Models Updated to use PATHMATE\_RHAPSODY\_CONFIG**

The sample models have been updated to enable the PATHMATE\_RHAPSODY\_CONFIG environment variable within the model and then use it to define the location of the PathMATE profile and Software Mechanisms domain.

### ***Topcased Integration***

#### **REQ02309 - Topcased Upgraded to 4.0**

The version of Topcased included with PathMATE has been upgraded from 2.1 to 4.0.

## **Version 8.1.0**

### ***Eclipse Integration***

#### **REQ02137 - Add Line Number Ruler to AL View In Eclipse**

A line number ruler has been added to the Action Language view in Eclipse. By default this ruler is enabled but it can be configured via the PathMATE Eclipse preferences.

### ***Rhapsody Integration***

#### **REQ02088 - Support Report Generation on Rhapsody Code Centric Models**

Extract Rhapsody Code Centric models including support for trigger macros and Rhapsody Predefined Types.

### ***Rhapsody Integration > PathMATE Profile***

#### **REQ02150 - Only the usable predefined types should appear in the selection box.**

Now in Rhapsody, the types from the included PredefinedTypes and PredefinedTypesCpp packages, available in the selection box is limited to int, bool, and OMString.

#### **REQ02151 - PathMATE types should appear in the selection box**

Now the types defined in the PathMATE profile appear in the type selection boxes.

#### **REQ02156 - Predefined Types Packages should be hidden in the Browser**

Now the packages included by default (PredefinedTypes and PredefinedTypesCpp) in Rhapsody are hidden in the Model browser for PathMATE Systems.

### ***Engine***

#### **REQ02103 – Add succeeded/failed summary message to transformation console report.**



Added a summary message to the end of the console report that says if the transformation succeeded or failed and the numbers of errors, warnings, and info messages.

Added an error, warning or info severity to each message reported.

**REQ02117 – Remove required Client-Server relationship warnings between Domains.**

The requirement to use a Client/Service relationship in the Domain Chart and system design has been removed. Previously this was presented in the "missing dependency relationship for invocation of domain service" warning.

## 6. Defects Repaired

### Version 8.1.1

#### *Rhapsody Integration*

- BUG02164** Custom Stereotype Tags are not correctly extracted from Rhapsody Model.

### Version 8.1.0

#### *Eclipse Integration*

- BUG02138** Double Clicking in Template Editor should not highlight the whole line.
- BUG02141** Null Pointer Exception when no Transformation is Selected.

#### *Rose Integration*

- BUG02138** PathMATE Re-install launched with Rose Integration after running Eclipse.

#### *Rhapsody Integration*

- BUG02105** All interfaces defined within a domain become part of the domain's interface.
- BUG02110** ParseAction tag has no effect on system's init hook
- BUG02127** Sub-Package Associations Not Loaded
- BUG02134** Stereotypes are not extracted from Rhapsody Model
- BUG02148** User Defined Properties are not extracted through Stereotypes of included Profiles
- BUG02157** Errors reported on entry/exit actions only identify state
- BUG02159** Transforming a model without the system stereotype, app. instance is not closed

#### *Engine*

- BUG02128** Transformation doesn't fail if errors reported in templates with LOGMESSAGE
- BUG02142** Groups of Destination Handles are not supported as Primitive Types
- BUG02143** Groups of Service Handles are not supported as Primitive Types

## 7. Known Limitations

### Version 8.1.1

- BUG01887** Platform Model may be corrupted. PathMATE Project and Platform Model editors can concurrently open a .pathplat file for editing, one via a file system path, the other via a workspace path. Can occur when:
- Changes made by Platform Model or other editors are not reported by PathMATE Project editor.
  - The Platform Model resource is saved during save to .pathmate file by PathMATE Project editor even Platform Model is not modified.
- BUG01888** In the PathMATE Editor, Markings Set Functionality is Broken. Markings Sets in Master Tree reports error on attempt to create new marking set and reports error on selecting new child. The new marking set can be selected in the Markings Detail for a selected Transformation; however, clicking on the Edit button results in a error.
- BUG01900** Refactor does not currently handle any of the content in the .pathmate project or .pathplat. Changing project name breaks Transform because PIM --> .Emx file is wrong. Manually correct PIM on PathMATE editor. Custom Maps with paths to renamed project would need editing.
- BUG01903** Rose Model Import and Conversion fails for certain PathMATE defined types. They are converted using default <<PrimitiveValue>> Integer. The Conversion Log displays highlighted warning messages for all defaulted types.
- BUG01904** Rose Model Import and Conversion does not update Action Language with domain names. In the Rose action language the implementation names were used to represent domains, however in RSM you have to use the complete Domain Name. Manual editing of Action Language is required.
- BUG01905** Model Fragment renaming is not handled correctly.
- BUG01906** When the Rose Model Import and Conversion process fills in a default type <<PrimitiveValue>> Integer for unresolved types, the type is lost when the .emx file is copied to another directory.
- BUG02091** Generated and mechanisms code generate copious warning messages while compiling.

- BUG02144** Groups of Incident Handles are not supported as Primitive Types. Use Group<ServiceHandle> instead.
- BUG02145** Hash Table implementation of Groups not Supported in VS2005+.

## 8. IBM Rational Software Modeler Version 8 Tips

- Renaming:
  - When performing a rename, all related files must be loaded into the workspace. Use the **Refactor** > Rename file menu item. Move files using **Refactor** > Move file menu item.
  - After creating or absorbing a model fragment, select the system, right click and select PathMATE Update PAL References.
  - Model renaming relies on model dependencies to find its action language references. If you call a domain service from a client domain, the client should have a dependency on the called domain.