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**PathMATE**  
**Transformation Map for Java**  
**Version 8.0.0**  
**Release Notes**

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# 1. Introduction

## Version 7.0

IBM Version 7.0 is a significant system upgrade. As of Release 7.0.0.2, there remain some issues that impact PathMATE functionality and should be understood by anyone evaluating Version 7 for production use. See section "Known IBM Rational Software Modeler Issues".

Please note there is no version 6 for PathMATE. A jump to version number 7.0 was made to be consistent with IBM Rational Software Development Platform version 7.0.

Although the on-line help for PathMATE has not yet been updated to reflect version 7.0 changes, two documents have been provided to help get over this hurdle. First, for a quick product introduction consult the updated QuickStart Guide which has been updated to reflect Version 7.0.0 "as released":

C:\pathmate\docs\QuickStartGuide\_RSM.pdf

This is the best way to get a guided tour with this "pre-view" release.

If you are an existing Rose user and want to convert your models to RSM version 7.0, there are a number of conversion issues still being addressed. As an aid to conversion with manual workarounds, consult:

C:\pathmate\doc\TechNotes\TechNote\_RoseConversionGuide.pdf

Also see section "Version 7 Tips".

## 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 (default c:\pathmate\doc). 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 PathMATE Quick Start Guide for RSM, and the PathMATE Quick Start Guide (for Rose users), located in the product install doc directory – typically c:/pathmate/doc.

## 2. Technical Support

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

## 3. Installation

PathMATE Transformation Map for Java must be installed from the same root directory as base PathMATE so the Java transformation maps in the platform models delivered with PathMATE can find their template files. If base PathMATE is installed in its default location, then the PathMATE Transformation Map for Java default location is correct.

## 4. Compatibility with Other Pathfinder Solutions Releases

Requires PathMATE 8.0.0 or higher

## 5. Impact to Existing Projects

### Version 7.0

Existing RSx 6.0 projects must be migrated to RSx 7.0 prior to Transformation. See Known Limitations.

### SW:GetMilliseconds and SW:GetTime Returns a Long

If your platform independent model uses the SoftwareMechanisms:GetMilliseconds service, the platform independent model should be modified in the following way:

1. In Rational Software Developer, add a new system level primitive type called Long. Show the properties for the type. On the Advanced tab, set PathMATE > External to True. Set PathMATE > BaseType to 4 - Integer.

2. Add the following line to the properties.txt file:

```
UserNonEnumerate,<system_name>.Long,ExternalType,long
```

where <system\_name> = the name of your system

3. Use the Long type to hold the return value from

SoftwareMechanisms:GetTime and  
SoftwareMechanisms:GetMilliseconds. For example,

```
Long now = SoftwareMechanisms:GetMilliseconds();
```

### **New SW:GetFineGrainedTime Service**

The SoftwareMechanisms domain has a new service called GetFineGrainedTime. If you are using Rational Software Developer to create your Platform Independent Models, the SoftwareMechanisms domain will automatically be updated when you install this release. If you are using Rose and you keep a local copy of the sw.cat file, you will need to update your local copy with the new version in c:\pathmate\design\rose\sw.cat.

## 6. New Features

### Design – Java

#### ***REQ2003 – Blocking Calls from Realized Domains***

Allow the user to make synchronous calls from realized task. Add the KeepNonlocalDispatcher=TRUE marking to generate non-local dispatchers for services called from realized tasks.

#### ***REQ02038 – Transfer Object Assembler Pattern***

Support the Transfer Object Assembler pattern to bundle data from the server and transfer it to the client efficiently.

See the Technical Note

c:\pathmate\doc\TechNotes\TechNote\_Data\_Transfer\_Objects.pdf

#### ***REQ2037 – Enterprise Java Beans 3.0***

Support transformation of Platform Independent Models into EJB applications using Weblogic.

See the Technical Note

c:\pathmate\doc\TechNotes\TechNote\_Enterprise\_Java\_Beans.pdf

## 7. Defects Repaired

### Design – Java

- BUG2004** Sometimes group types were stored in data containers as lists other times they were stored as serializable. Use serializable when storing groups.
- BUG2005** There were several issues with multiple processor deployments in Java. 1) The entire size of the message buffer was written to the socket rather than the portion used. 2) The read loop did not actually read the message when it arrived. 3) The remote address was not initialized when connection to clients. 4) The size of the header was not deducted when reading the body of the message.
- BUG2006** If an interface had multiple non-interface children, the participants for all associations were inherited down the class hierarchy. This is unnecessary. Classes should contain associations that they define themselves or any interfaces that implement.
- BUG2007** Iterators used when a GroupIter<> is created in action language are not being released. Add a try { } finally around actions that access group iterators. Release the iterators at the conclusion.
- BUG2008** Iterators used to implement foreach action language statements are released inside the generated while statement when the foreach completes. However the loop does not always run to completion if there is a break inside the action contained in the foreach. Release the iterator after the while loop instead.