# News in RSA-RTE 10.1

updated for sprint 2017.34

Mattias Mohlin, August 2017



#### Overview

- Now based on Eclipse Neon.3 (4.6.3)
  - Many general improvements since Eclipse Mars
- Contains everything from RSARTE 10 and also additional features and bug fixes



– See the What's New presentation for RSARTE 10 to learn about new features



IBM Rational® Software Architect RealTime Edition

Version: 10.1.0.v20170512\_1332 Release: 2017.19

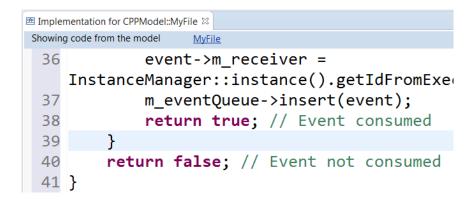
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Visit http://www.ibm.com/developerworks/connect/rsarte

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- Word wrap in text editors
  - Use the shortcut Alt+Shift+Y or access the "Toggle Word Wrap" command from Quick Access

Previous Choices • Toggle Word Wrap - Toggle word wrap in the current text editor (Alt+Shift+Y)

Commands for "zooming" in text editors by changing the font size
 Ctrl++ for zooming in and Ctrl+- for zooming out



- Autosave of dirty editors
  - Set a timer to automatically save modified editors after a period of inactivity
- Terminate and relaunch
  - Makes it simpler for users who prefer to only have one launch (e.g. a debug session) active at the same time
- Shortcuts to recently used workspaces when launching RSARTE

🖨 Eclipse Lau	ncher
Select a dir	ectory as workspace
Eclipse uses	the workspace directory to store its preferences
Workspace:	C:\Users\IBM_ADMIN\neon-workspace2
- Recent Wo	rkspaces
neon-work	space2
neon-work	space

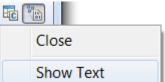
- Command for toggling visibility of window toolbars (to maximize space for editors and views)
  - Assign a keybinding to this command, or access it through Quick Access
     Assign a keybinding to this command, or
- Full screen support (to maximize RSARTE's usage of the screen)

You have gone full screen. Use Alt+F11 to deactivate. Close
Do not show again

Perspective names hidden by default (to save space in toolbar)

before	😰 🖹 🔁 Resource 👔 UML Development 😨 Modeling	🎋 Debug
now		E

The names can be shown using the context menu



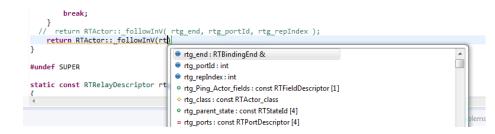
- New smart wizard for importing projects
  - No longer necessary to use different wizards for different kinds of Eclipse projects

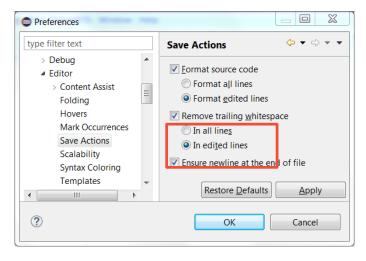
File	Edit	Navigate	Search	Project	Modeling	Run T
	New				Alt+Shi	ft+N ►
	Open	File				
	Open	Projects fro	m File Sy	/stem		

- For more information about Eclipse improvements see
  - News in Eclipse 4.6.3 (Neon) https://www.eclipse.org/eclipse/news/4.6/

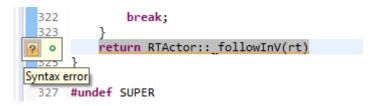
#### CDT 9.2.1 (included as part of Eclipse Neon.3)

- Save Action for automatically formatting edited lines when saving a file
- Parameter guessing when typing function calls





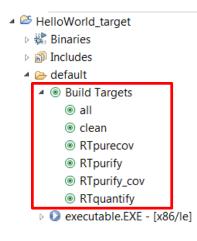
- Support for decltype(auto) type-specifiers
- Expansion of icons in the editor ruler
  - Helps when there are multiple icons on the same source code line



#### CDT 9.2.1

- Command for commenting/uncommenting selected lines in makefile editor (Ctrl + /)
- Build targets (previously called Make targets) now show up in the Project Explorer. They can be run by double-click.
- Support for running commands in the debugger when a breakpoint is hit

Properties for C	C/C++ Line Breakpoint	
type filter text		Actions
Untitled De	bugger Command Action	
Action name:	Untitled Debugger Comm	and Action
Action type:	Debugger Command Actior	n 👻
Debugger com	mand(s) to run when the bre	eakpoint is hit:
print a continue		



#### CDT 9.2.1

- Local variables and registers in the Memory Browser
- Improved source lookup when debugging

-	Path Mappings		+ ×
Specify the mapping paths			11
Name: Path Mapping			
Compilation path:	Local file system path:		Add
🖾 C:\Path\On\Windows	/path/on/linux		Remove
🖉 \\UNC\Path\Here	/path/on/linux		Up
/path/to//relative/compilation	/path/on/linux		
			Down
Resolve path mappings using debugg	ger backend.		
0		Cancel	ОК

🔋 Memory Browser 🛿		1019 1010	C3		⊽ □	
&hbSendingThreadNa	ame		۳	Go	New Ta	b
0x7fffffffdbe0 - hbSend	lingThreadName <traditional> 🛿</traditional>					
0x00007FFFFFFFDBE0	00401252 00000000 00401265 0000000 0040127A 000000000000000000000000000000000000	R.@e.@	• • • • •	z.@.		-
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0x00007FFFFFFFDC88	162807CB 7E952AE1 00000000 0000000 00000000 0000000	Ë.(.á*.~				

For more information about news in CDT 9.2.1 see <u>https://wiki.eclipse.org/CDT/User/NewIn90</u> and <u>https://wiki.eclipse.org/CDT/User/NewIn91</u>

#### EGit 4.6.1

- RSARTE now includes an EGit integration that is based on the latest version of EGit
- RSARTE files can now be opened in a text editor from the EGit History view.
   Previously this command was disabled, but its more useful to at least be able to open the files in a text editor
- The documentation was updated at <u>https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/W0</u> <u>c4a14ff363e\_436c\_9962\_2254bb5cbc60/page/RSARTE%20Git%20Integration</u>
- See <u>https://wiki.eclipse.org/EGit/New\_and\_Noteworthy/4.6</u> for news in EGit 4.6.x

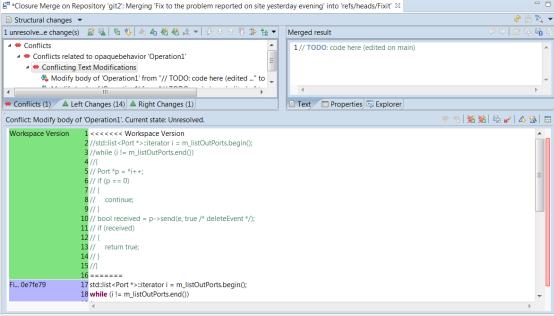
#### Codan

- Codan is the Code Analysis feature of CDT. It has been improved in CDT 9.2.1.
- To use it on the CDT projects generated by RSARTE you should enable the preference UML Development – Real Time C++ Transformations – Generate additional information for Code Analysis
  - Adds standard include paths to generated CDT projects
  - Makes Codan report much fewer errors, and therefore makes it more stable
  - Use of this feature may increase the build time somewhat

#### Improved Text Merge

- Merging text (code, comments etc.) is now easier thanks to a new text merge editor
  - Replaces the old "sub-merge" (except when merging rich text)
  - Conflicts can be resolved by choosing the contributor versions, but also by direct editing
  - Non-conflicting text blocks are merged automatically but can also be edited if needed
  - The editor has line numbers and a Find command
  - The "Merged result" view is updated when saving or when the text merge editor looses focus
  - Easy to get an overview of all changes made in a merged text compared to the ancestor version
  - The colors used can be customized in preferences at *General* –

Compare/Patch – Modeling Compare/Patch – UML Compare/Merge



#### Simplified Compare/Merge Editor

- Some commands were removed
  - Edit Merged Result

It is recommended to instead use compare/merge tasks to keep track of changes that need to be done after the merge has been completed.

- Revert Session

This command did not work in all compare/merge contexts, and it's better to revert a session by simply closing the Compare/Merge editor and launch it again.

#### Improved Layout of Property Pages

 The layout of some property pages have been improved to make them more compact, and to give more space for editing important properties
 For example:

Properties XX							
Attribute>					Properties		
e <attribute></attribute>	> y				🖷 <attribute></attribute>	x	
General	Qualified N	lame: <u>HelloWorld</u> :: <u>He</u>	elloWorld::y Copy		General	Qualified Nar	ne: <u>HelloWorld::Cap:</u> x Copy
Documentation	Name:	у			Documentation	Name:	
Stereotypes	Visibility:	Public OPrivate	e OProtected		Stereotypes		x Public  Private  Protected
Constraints					Constraints	visibility.	Jubic Scholected
Relationships	Qualifiers:	Static Const			Relationships	Qualifiers:	Static Const
Property Sets	Type:	CCC	Select type Open Type		Property Sets	Type:	const IHandler Select type Open Type (unbound)
Advanced	Default Val	lue:			Advanced	Default Value	:: []
	Multiplicity	None (1)	-			Multiplicity:	None (1)
	Aggregatio	on: None 🔻	$\sim$			Aggregation:	None 🔻
before	9			·	now		
			Removed useless Browse	e button for	default valı	ues	More space for editing type and default value of an attribute

#### Property Sets Property Page Improvements

- The Property Sets property page for C++ properties has been split into two dedicated tabs: C++ General and C++ Target RTS
- Properties have been grouped and renamed to make them easier to work with, and some are now disabled when not applicable
- A preference Modeling Views Show Property Sets Tab for Applied Profiles can be set to get back the old behavior

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	🔓 <class> Class</class>	\$1			
Grouping of related	General		(Overridden) Apply Defaul	ts 🔺	De die bestere instand of deen deserv
properties	Attributes	Kind:		Ξ	<ul> <li>Radio buttons instead of drop-downs</li> </ul>
1 I I I I I I I I I I I I I I I I I I I	Operations	Default Constructor			
	Documentation	Generate	Explicit Inline		
	Stereotypes	Visibility:	public		
	Constraints				
Dedicated tabs	Relationships	Copy Constructor			Disabling properties when they are
	Dependencies	Generate	Explicit Inline		not applicable
	Links	Visibility:	public  protected  private		
	C++ General				
	C++ Target RTS	Assignment Operator			
	Advanced	Generate	Inline		
		Visibility:	● public ○ protected ○ private	-	

#### Improved Editing of Literals and Parameters

- The Properties editor now allows enumeration literals and operation parameters to be edited using textual syntax
  - Similar to how operations and attributes are edited
  - The context menu provides navigation to the literal or parameter

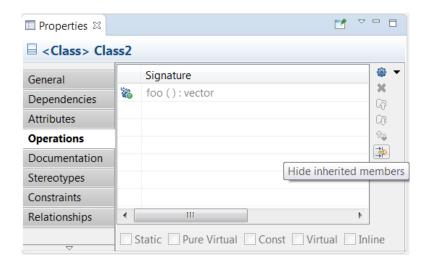
Properties				
🖷 <enumerati< th=""><th>on&gt; E</th><th></th><th></th><th></th></enumerati<>	on> E			
General	Enumera	tion Liter	als:	
Literals	Name	Value	Specification	
Documentation	Blue	1	Literal Integer	
Stereotypes	Red	2	Literal Integer	
Constraints	Green	3	Literal Integer	
Relationships				
Property Sets				
Advanced				
	+ Add	🗙 Rer	move 🗘 Move	up 🕂 Move down

#### before

Properties			$\nabla$	
🕮 < Enumerati	on>	E		
General Literals Documentation Stereotypes Constraints Relationships Property Sets		Signature Blue = 1 Red = 2 Green = 3		20 20 20
Advanced				
	•	III	•	

#### Hiding Inherited Members in the Properties View

- The Attributes and Operations tab in the Properties editor now provides a toggle button for hiding/showing inherited attributes or operations
  - Sometimes it's useful to hide inherited members to only see the attributes or operations that are defined in the selected class.



#### Improved Relationships Tab in the Properties View

- More relationships can now be seen in the Relationships tab without scrolling vertically
- Also, the tables now resize automatically if the Properties view is resized. For example, it's now useful to maximize the Properties view in case there are lots of relationships to look at.
- The tables can now be sorted. For example, by sorting on the Type column it becomes easy to find relationships of a particular kind (such as Generalizations).

eneral	Rela	tionships o	originating from thi	s element:
ependencies		Name	Туре	Other Related Element(s)
ttributes	1	(Cap)	<dependency></dependency>	<u>Cap</u>
perations	1	(Class2)	<generalization></generalization>	Class2
ocumentation				
tereotypes				
onstraints				
onstraints elationships				
	Adc	I Delete	Navigate	
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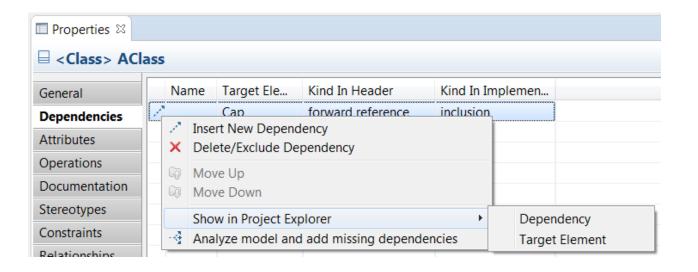
#### Improved Create Relationship Dialog

- Relationship types that are not relevant for RSARTE users are now filtered out from this dialog
- This applies when the Capsule Development viewpoint is active

Create Relationship
Source Element:
Blank Package::Package1::MyClass
Target Element:
Search Browse
Select an element:
MyClass
SClass
Interface1
Package2
▷ 🖻 Package3 💌
Interface1
Show only the enclosing project Model_with_diagrams and the projects it references
Relationship Type:
Composition Association
2 <sup>°</sup> Dependency
Directed Aggregation Association
✓ Directed Association
#Interface Realization
· · · · · · · · · · · · · · · · · · ·
OK Cancel

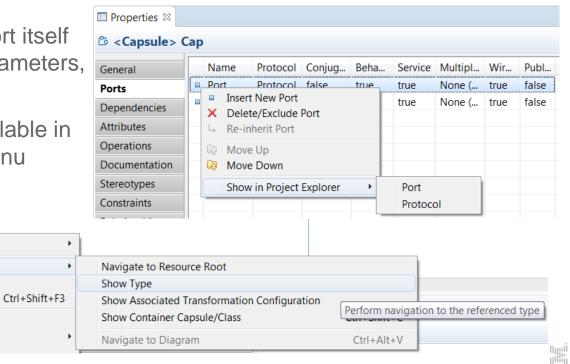
#### Navigation from Dependencies

- The Dependencies tab of the Properties view now provides commands for navigating to:
  - the dependency itself
  - the target element of the dependency



#### Navigation from Attributes, Parameters and Ports

- The Attributes, Parameters and Ports tabs of the Properties view now provides commands for navigating to:
  - the attribute, parameter or port itself
  - the type of attributes and parameters, and the protocol of ports
- These commands are also available in the Project Explorer context menu



Add UMI

Navigate

Fdit

& Cut

Refactor

Show Code View

Show Source in Editor

🖷 x : const IHandler

🐔 doIt ( )

ExtEnv : Ex

Port : Prot

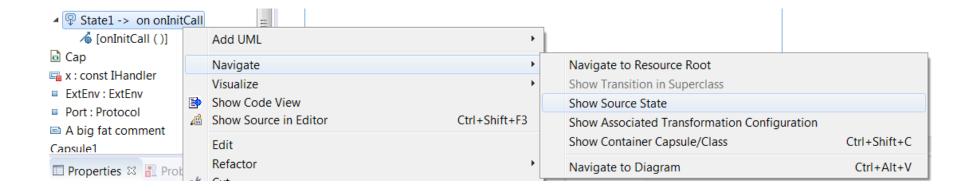
R Problems

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xt

#### Navigation to Source State of a Transition

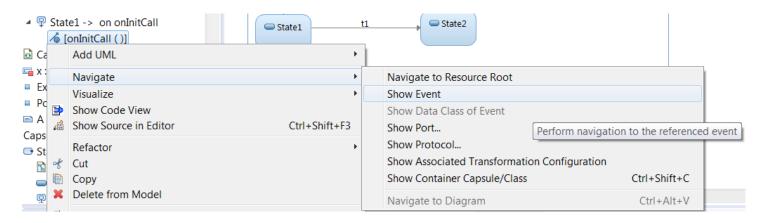
 The Project Explorer now supports navigation from a transition to its source state (i.e. the state from which the transition originates)



## Navigation from Transition Triggers

- Useful navigation commands have been added for transition triggers shown in the Project Explorer. You can now navigate to:
  - the event
  - the data class of the event (if any)
  - the port
  - the protocol of the port

For passive class triggers navigation to the trigger operation is provided instead.



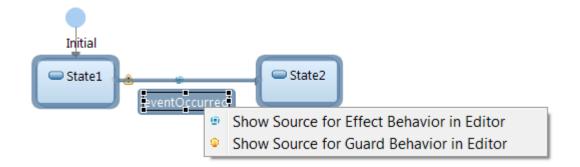
#### Navigation from Redefined or Excluded Elements

- Navigation commands are now available for navigating from redefined or excluded states, transitions or ports. They navigate to the corresponding element in the super class (capsule).
- These commands are available both in the Project Explorer and in diagrams.

🔊 S	e Machine GubClass::State Machine GoTellIt Add UML	E Initial State1		GoTellIt		
<i>№</i> (ŀ	Add Diagram	•				
▷ 🖧 (Cpp	Navigate	•		Navigate to Resource Root		
	Visualize	Ctrl+Shift+F3	•	Show State in Superclass		
<ul> <li>b 2 (RTC</li> <li>Transform</li> <li>a.txt</li> </ul>	<ul> <li>Show Code View</li> <li>Show Source in Editor</li> <li>Find</li> </ul>			Show Associated Transformation Configuration Show Container Capsule/Class	Ctrl+Shift+C	
HelloWorl				Navigate to Diagram	Ctrl+Alt+V	

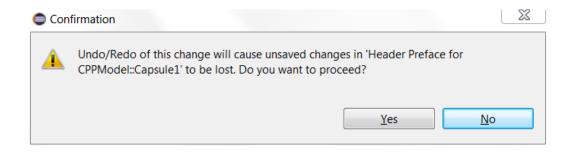
#### Open Code Editor for a Transition

- It's now possible to double-click on the text label for a transition line in order to bring up the pop-up for opening the code editor
- This is sometimes easier than to double-click on the transition line itself (especially if the label was moved a bit away from the line)



#### Undo/Redo Improvements

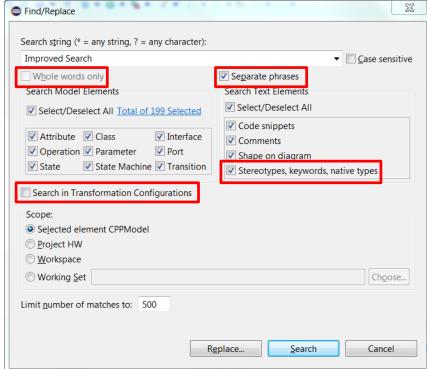
 A confirmation dialog now appears if you perform an Undo/Redo operation that would overwrite unsaved changes in the Code Editor:



#### Improved Search Dialogs

The Find/Replace and Model Search dialogs have several new options for searching to make them equally powerful as the Search field:

- Whole words only. When this option is set, the search behaves very similar to how searching in 9.x worked (it had a similar checkbox)
- Separate phrases. Search for multiple words separately.
- Search in Transformation Configurations.
- Stereotypes, keywords, native types.



#### Miscellaneous Search Improvements

- New preference for making search field wider
- Search field is no longer disabled while a search is running
  - Makes it possible to start a new search at any time
- Progress bar for Search operations now reports actual progress of the running job so user can estimate completion time for long-running tasks

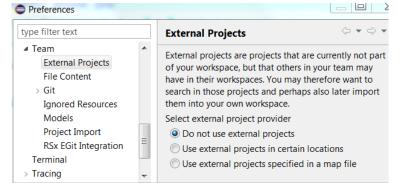
Preferences			
type filter text	Search	⟨→ → → ▼	
> Plug-in Developm  > Run/Debug	Maximum number of results	500	
> Sketch Editor	Number of threads	8	
> Team	Clear search field after search is dor	ne	
Terminal	Search field width (restart required)	200	
<ul> <li>UML Development</li> <li>Code To Model</li> </ul>	Number of searches to keep in history	200	
> Real Time	Load model when try to display match in the code view		
Real Time C++	Search index preferences can be config	gured on the Index preference page.	
Search			
Index	R	Restore <u>D</u> efaults <u>Apply</u>	
?		OK Cancel	

#### **External Projects**

- These are projects that you currently don't have in your workspace, but your team members may have them in their workspaces.
- You can now search in external projects (and import the ones you need from the search result)
- You can also import them directly from a new Import External Projects wizard
- When an external project is imported, dependent projects are automatically imported too
  - Guarantees a consistent workspace for all team members
  - Not necessary for each user to keep project dependencies in mind, when deciding which projects to import

### Import External Projects Wizard

- Import Other External Projects
- Before using the wizard you must specify where to look for external projects: Preferences – Team – External Projects
  - Certain locations in the file system, or
  - A map file

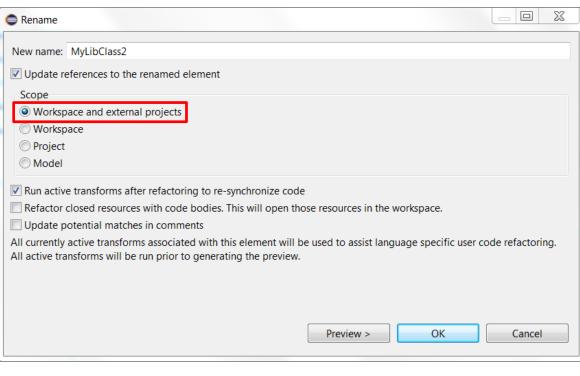


Import External Projects		
Select projects		
Select external projects to import		
Filter projects (use ? for any character, * for any substrin	g, \ to escape)	
t		
Available projects		
Project name	Project path	
target	C:\rsarte\models\target	
test test	C:\rsarte\models\cm_smd_3way\test	
testModelDiagramExportFailure	C:\rsarte\models\100901\testModelDiagrar	
۲ III III III III III III III III III I		
Select All Select None		
(?) < <u>Back</u> <u>Next</u> >	<u>Einish</u> Cancel	

- In case of ambiguities where to find dependent projects, these can be resolved on the second wizard page
- This way of importing projects is more convenient than importing by means of the general Eclipse Project Import wizard (which does not take project dependencies into account)

#### Importing External Projects when Refactoring

- When performing a refactoring you want to have in your workspace all projects that may be affected by it
  - For example, renaming an element should rename all references to the element. This means that all projects that contain such references must be present in the workspace when running the refactoring.
- It's now possible to automatically import external projects when refactoring
  - References in the refactored model are analyzed to determine which projects that need to be imported



#### Loading of Models Imported from External Projects

 It's now possible to automatically load models that are imported from an external project. Set the preference:
 Preferences – UML Development – Load models on external projects import

> Load Models Load models on startup Load models on external projects import

 Note that the preference for automatic loading of models on startup also was moved to this preference page

#### New Search Scope for Including External Projects

 A new search scope "Workspace and External Projects" is now available in the Scope context menu of the Search field

•	Workspace and External Projects	Scope	•
	Workspace	Search Preferences	
	Project	Index	
	Selection	Replace	arch

 This makes it possible to decide whether to search in external projects or not, without having to disable the External Projects preference

#### Load UML Models

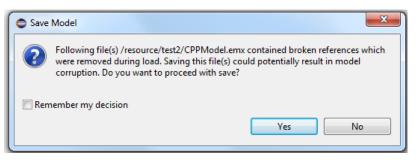
- This command was changed to always load all models in the workspace
  - Users rarely used the possibility to only load some of the models
  - Populating the "Load UML Models" dialog could take a significant amount of time in large workspaces
- In the following API the 'prompt' parameter is now ignored (but kept to avoid API incompatibility): com.ibm.xtools.modeler.ui.internal.ui.actions.LoadModelsActionDelegate.loadUMLModels(boolean prompt)

Additional API methods were added and are now recommended to be used instead:

loadUMLModels() loadUMLModels(List<IFile>) loadUMLModels(List<IFile>, Consumer<Boolean>) Load everything Load specified model files Load specified model files with callback when done

### **Preventing Model Corruption**

- During model loading, certain kind of broken references could be deleted (for example, ones that define redefinitions).
  - Each deletion is marked with the message in "Rational Modeling" console. If users modifies such model and then tries to save it, it could lead to the corruption.
- To prevent saving models with removed broken references, warning message dialog appears now for each model file during save.
   Resource Resolution



Resource Resolution	← ▼ ⇒ ▼
Model Repair Options Broken references auto-cleanup	
Refresh workspace before loading models	
Save model resource with removed broken references	
Prompt	•
Prompt	
Always	
Never	

 To control action on save, new preference "Save model resource with removed broken references" is introduced at the UML Development - Real Time - Resource Resolution page.

#### **Model Compiler**

- Use of the Model Compiler is now the recommended way to build models into C++ applications
  - No longer necessary to have a Display when running command-line builds
- Most features from the classic builder are now supported
  - Inheritance of TC prerequisites
  - "Save before build"
  - Generation of makefiles for external library TCs
  - Only generate code without building it

N.B. Some limitations in the Model Compiler still exists (e.g. support for C code), so if necessary you can still use the classic builder

- Makefiles can now be generated with a single rule that will perform all transformations in one step.
  - This can be useful if your build environment does not support parallel processing of make rules, but you still want to drive the entire build from make

Generated make file Include make rules for model-to-code transformation

Separate. One make rule for each source file.

O Joint. One make rule for all source files corresponding to the same model file.

Full. One make rule for all sources.

#### Model Compiler (cont)

- As a rule new features in the C++ code generator are now only implemented in the model compiler, and not in the classic builder
  - Warnings are printed if the same element is included in different TCs for the same build
  - Building variants of a TC by means of post-processing TC files in JavaScript format (see <u>Improved TC</u> <u>File Format</u> below)

#### Command-Line Usage of the Model Compiler

- The model compiler requires a license (one per build)
  - Use the command-line option --license to specify the location of the license file or server
  - Alternatively, the environment variable RSARTE\_MODEL\_COMPILER\_LICENSE can be used instead
- Generating build information for a TC
  - Use the command-line options --generate=makefile --genBuildInfoRules --build=build\_info
  - A special make target ("build\_info") will be built which will print useful information about the build, such as the compiler and linker commands that will be used, full paths to source files, etc.
  - The build information file is generated in the same location as the makefile and has the suffix "build\_info.js".

#### **Model Compiler Preferences**

The "Real Time C++ Transformations" preference page allows you to choose if you want to use the model compiler or the old C++ code generator ("Classic Builder") for building your model.

F	Real Time C++ Transformations
	Build type
	Classic Builder ( Model Compiler

Depending on your choice the applicable preferences will be shown below
 The model compiler supports an extended subset of the preferences supported by the classic builder.

### Model Compiler Support for External CDT Projects

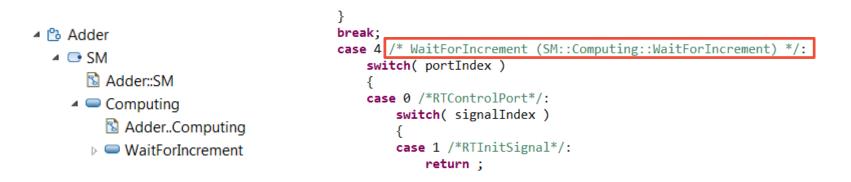
- The Model Compiler can now build external CDT projects for which a makefile needs to be generated as part of the build
- It delegates such requests to RSARTE through an HTTP call. The preferences in UML Development – RTE Server allows you to configure the HTTP port that is used for such requests. This works in the same way as the Compare/Merge server, but the ports are different.

RTE Server Port range (syntax is low:upper), restart is required :
60003:60020
RTE Server status: server is running at port 60003  Enable console logging

 This feature is only relevant for interactive builds from the RSARTE UI. For batch builds there should be makefiles available for building such external projects.

#### Improved Readability of Generated C++ Code

- C++ code generated by the model compiler now contains comments for states
  - State name (fully qualified name within parenthesis)
  - Generated both for capsules and passive class state machines
  - Helps when debugging generated C++ code



### Improved TC File Format

- A new TC file format based on JavaScript is now supported by RSARTE
  - Files with the extension .tc.js are considered to be Transformation Configurations
  - .tc.js files are visible in the Project Explorer and have TC icon
  - .tc.js files can be viewed by Eclipse Java Script or external editor
  - Transformation Configurations Command "Convert to Java Script" is available in the context menu of the Project Explorer on the .tc files
  - [EXPERIMENTAL] Convert to JavaScript It is possible to build and clean .tc.js files using corresponding context menu command on the .tc.js files. To have these commands visible, Model Compiler should be selected as an active builder

Default Transform Configuration.tc.js

«C++ Executable» Default Transform Configuration

[EXPERIMENTAL] Build...

[EXPERIMENTAL] Clean...

- TC files in the new format can be set as Active TCs
- Support of a new TC file format for the command line Model Compiler tool
  - You can convert an existing TC with the following command: java <JVM options> -jar modelcompiler.jar --xml2js --root <.map> <files>
- The new format is easy for humans to read and write and allows TCs to become more dynamic through the use of JavaScript statements.
  - This will make it possible to build multiple variants of a single TC without having to create physical TC files for all variants.
- A JavaScript API is now available for working with TCs programmatically

#### Product News Shown on Welcome Page

- There is a newsletter for RSARTE with new posts approximately every second week
- Now you can view the latest news about the product on the Welcome page (in the What's New section)
- There is also a link for subscribing to the newsletter (by sending a mail to <u>rsarte@hcl.com</u>)



#### UML Real Time Development

Learn about what is new in this release of Rational Software Architect RealTime Edition.

#### Latest News -



- On the way to C++ simplification
- Do you know about navigation history of the Project Explorer
- Have you noticed the New Search
- RSARTE 10.1 for Eclipse Neon and CDT 9.1

Subscribe to the RSARTE newsletter

**THANK YOU!**