# **19.0 LTR SP1 Version News**

# ENTERPRISE ARCHITECTURE UPDM / DODAF / MODAF / SYSML / BPMN / SOAML

Released on: November 12, 2018

The 19.0 SP1 release of the UAF plugin features not only bug fixes, it also includes several new features focusing on UAF Framework and UAF Profile support improvements and usability enhancements.

Also this release delivers major new capabilities to the desktop client. These include Complete Diagrams, Composite Structure Diagram / Internal Block Diagram-based Layout Templates, Vertical Labels, and enhanced Sequence Diagram modeling with Execution Specifications.

A number of new and exciting features enrich your Collaborative modeling, including, but not limited to: Pre-commit validation, update-free locking, archived branches, etc. Additionally, the 19.0 SP1 release introduces a command line utility for switching used projects to the latest version.

Download it today at nomagic.com or contact your sales representative, and don't forget to give us your feedback on Twitter or Facebook.

#### **UAF Features**

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- Other

#### SysML Features

#### **Modeling and Infrastructure**

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- /Internal Block Diagram
- Vertical Labels
  Enhanced Sequence Diagram Modeling with Execution
- Modeling with Execution Specifications
- Forward Compatibility
- Other

CollaborationOther Features

Personnel Availability Gantt Chart

The Personnel Availability Gantt Chart is implemented. Using this chart, you will be able to model your actual organization structure based on the typical organization structure and fill Actual Posts with one or more Actual Persons. You will be able to visualize how the actual posts are filled, see which actual persons becomes available on the certain period of time.

It will show Actual Organizations and Actual Posts as rows. Each Actual Post may be filled with Actual Person. The relationship is FillsPost. The relationship may have start and end dates, they show the frame when Actual Person fills the Actual Post. The same Actual Person may work in several positions.

Learn more about working with Personnel Availability Gantt Chart >>

#### Exchanges

- When Operational Connector is connected to a port, and the port has an Operational Interface with Flow Property with a type of Information Element, the Realized Operational Exchange dialog should strip a list of possible Information Elements. If there are two different Operational Interfaces, from both of them the overlapping Information Elements are collected. The same is valid for the Resources and Data Elements.
- Now you can change the conveyed item directly in the Resource / Operational Exchange Manager dialogs.
- The new Resource Exchange Type column is now available in the Resource Exchange Manager dialog.
- The new symbol properties are added to control the Information Flow Name and ID representation in the diagram:
  - ° Show Name of Information Flow (true/false).
  - Show ID of Information Flow (true/false)

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# UAF Libraries Updated

The UJTL Library and DISR libraries are enhanced.

A new mechanism allowing you to download and use the earlier version of the updated libraries is implemented. You will be able to continue working with your projects using the earlier version of the libraries.

#### Learn about using libraries >>

#### Loading the basic units from ISO-80000 library

You can load the ISO-80000 library and the basic units from the ISO-80000 libraries from several places:

reate a new blank	JAF project		
			a location to store the newly created project, and press
Enterprise Modelin	g ¢	^	Name: NM_Architecture_Value
UAF	UAF Enterprise		Project location: C:\Users\Documents
Project	Architecture Project		Create directory for project and related data
	8		UAF Project Options
UAF	UAF EA		
Project Template with Process Guide	Project Template with Process Guide		General System Engineer User Interface Mode false
•••	•		BPMN compliance mode
Hoan	∎POH		Map Information and Data Elements on E Talse
DoDAF 2.0 Project	MODAF		Auto Check Model Completeness af false
Project	Project		Select Framework Views
-	-		DISR Standards Library Version None
2	🚯		UJTL Library Version None
DoDAF	MODAF		Order Packages by Framework 🗸 true
Project Template with Process Guide	Project Template with Process Guide		► Use basic units library
man rocess colde			Use basic units library
<b>H</b> adi	🚯		Set to true to load the basic SI, US customary, naval and imperial from the "ISO-80000" and "ISO-80000-Extension" libraries.
NAF	NAF		In online 130-00000 and 150-00000-Extension libraries.
Project	Project Template	$\sim$	

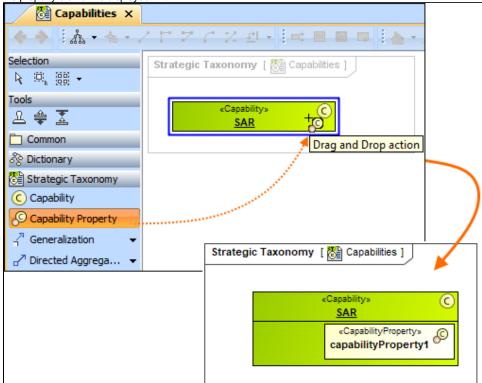
• In the existing project, where the library was not loaded, you can load it manually from the value properties smart manipulator.

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#### Other

- Starting with 19.0 SP1 version, the latest NAF 4 standard version is supported.
  Now creating a new project, you can choose how you want to order the packages. In the New Project dialog, you can choose to order the packages by framework or alphabetically.

• When you create a property element from the diagram palette on the target element, the Structure compartment of the target element opens and the property element is displayed in it.



- Only the Data Type is available as a Conveyed Item for the Command and Control relationships.
- Typing the Type for pins in a diagram, instead of the class the appropriate elements are created:
  - Information Element for Operational Activity Action
    - Data Element for Function Action
- The Security Property type now depends from the owner:
  - when the owner is «OperationalAgent», the Security Property type is «InformationElement» or its specializations.
  - when the owner is «ResourcePerformer», the Security Property type is «DataElement» or its specializations,
  - ° when the owner is «InformationElement», the Security Property type is «InformationElement» or its specializations,
  - when the owner is «DataElement», the Security Property type is «DataElement» or its specializations.
- The newly created packages are named by default. The packages are named according to the domain view. For example, when you choose to create an Operational Structure package, it is names *Operational Structure*. You can rename the package at any time. The same is valid for the reports.
- Now all the Taxonomy Tables have the Scope set by default. The Scope is set according to the owner of the table.
- Typing a name on the Operational Association or Operational Connector and pressing Enter now creates a new Operational Exchange with conveyed Information Element. The same is valid for the Resource Exchange with Data Element. The exchanges are created between the types, so if the types are not set, the Realized Operational / Resource Exchange dialog is opened. Note, that if the name of conveyed item (Information Element) already exists, the existing item is set.
- Now after changing the end of the connector, the suggestion to update the Information Flow also is displayed.
- The Measurement Set is added as a possible element to all Typical Measurement tables in all frameworks.

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# SysML Features

# **Displaying Related Elements for Parts with Ports**

The enhancement of the Display Related Elements brings the following capabilities:

- The indirectly related parts are available in the **Display Related Elements** dialog.
- The indirectly related parts are shown after the drag-and-drop action, when before releasing the dragged element you hold it for a while.

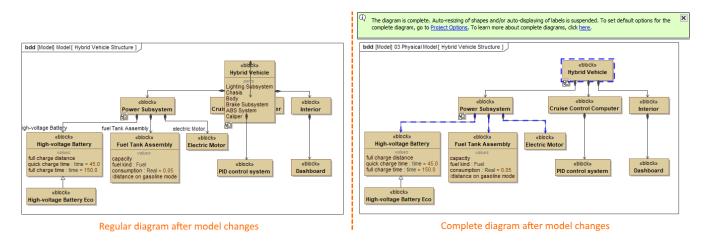
# Other

• The Copy-Paste functionality is now improved. When you copy one cell and paste it into another cell, the element references are created to the existing model element. When you want to clear the pasted column (by pressing Delete), only the references (if editable) will be removed.

Modeling and Infrastructure

# **Complete Diagrams**

When you work on a diagram, you invest a lot of time polishing the diagram layout to make it look good. However, if the content of your model changes, the diagram layout also changes and needs to be fixed. To save time, mark diagrams as complete and prevent their layout from being automatically updated.



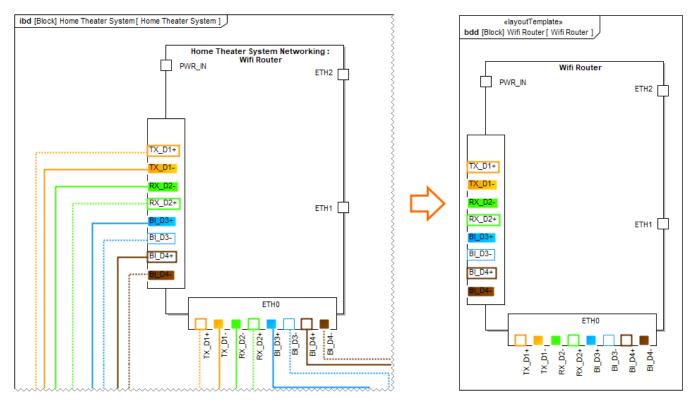
The diagram on the right is marked as complete to prevent layout changes, which cause the distortions seen in the diagram on the left.

Learn more about complete diagrams >>

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# Deriving Layout Templates from a Composite Structure Diagram/Internal Block Diagram

Consider the effort it takes to perfect the layout of parts and their ports in Internal Block Diagrams. It would be more efficient to reuse the same layouts in other diagrams of your model. Now you can create layout templates directly from Internal Block Diagrams with just a few clicks.

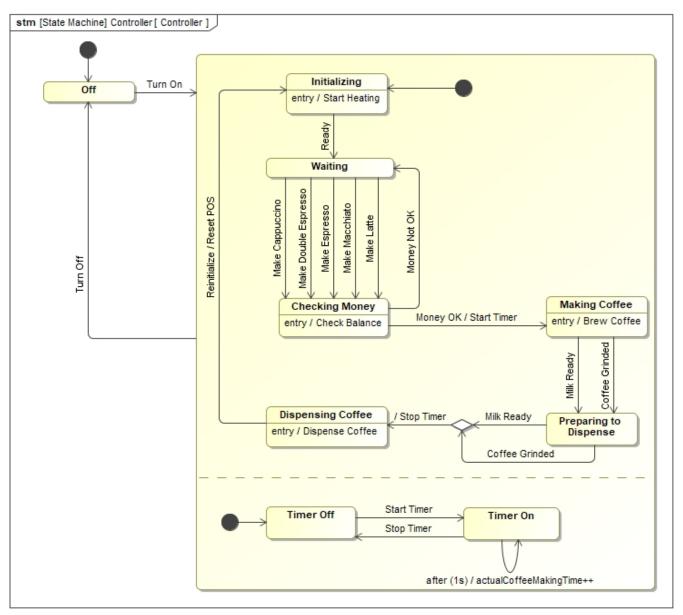


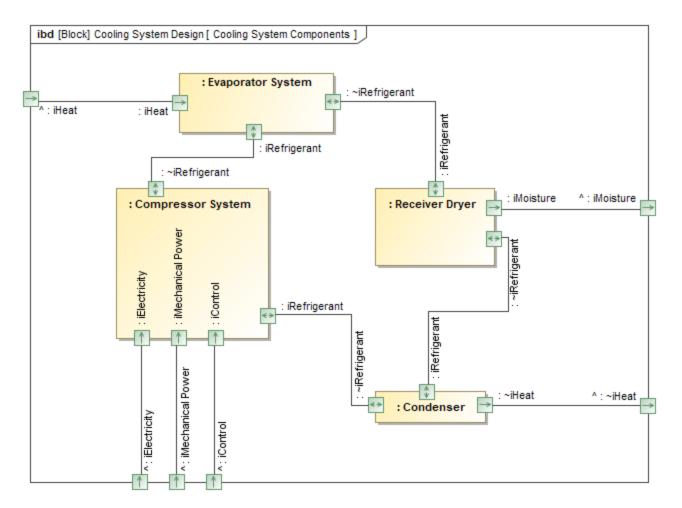
Layout template created from an Internal Block Diagram.

Learn more about layout templates >>

# **Vertical Labels**

You can now change the orientation of symbol labels, making the optimization of the diagram layout easier. Rotate labels horizontally or vertically, or select the automatic label orientation option, which adjusts labels according to the position of shapes or paths.





These sample diagrams illustrate how changing label orientation can optimize diagram layout.

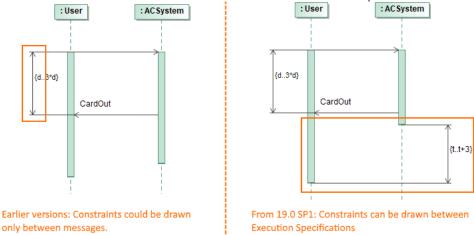
Learn more about label orientation >>

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# **Enhanced Sequence Diagram Modeling with Execution Specifications**

With this release, Sequence Diagram modeling becomes more precise. The activation bars now represent real model elements: Behavior and Action Execution Specifications. This enhancement adds two benefits:

- Navigation. Double-clicking the activation bars (Behavior Execution Specifications) enables you to navigate from a sequence diagram to other behavior diagrams.
- Time and Duration Constraints can be attached to Behavior and Action Execution Specifications.



Learn more about working with Execution Specification Modeling >>

# **Forward Compatibility**

Occasionally, a new service pack for a modeling tool is released while a team is working on a project. Some team members will upgrade their tool versions to the latest immediately, while other members will still use an earlier tool version. Beginning with Version 19.0, situations like this are handled by supporting forward compatibility. This enables all team members to work with different service pack versions if they do not all upgrade to the latest version at the same time.

Learn more about forward compatibility >>

# Other

- The Go To functionality was improved, so results are displayed faster and more conveniently.
  - The enhanced Glossary Tables supports the following:
    - Synonyms
      - Filtering by Row Element Type
      - Show Columns
      - Possibility to create New Custom Column and New Derived Property.
- A new project option, "Decimal Places," controls the maximum decimal places for real numbers in tables (generic, instance, metrics) and in specification windows.
- In the Relation Map, you can choose to show or hide Context, Relation Criteria, Element Type, and/or Scope.
- You can create custom diagram types based on the Generic Table and Relation Map options.
- The modeling tool has been improved to allow the reordering of all types of elements in the model browser.
- The diagram zoom ratio and scroll position are adjusted automatically, so that your diagrams look the same on either a regular or HiDPI monitor.
- When drawing a new relationship hold down the **Alt** key to reverse the relationship.
- Set Select Symbol Style as Default is removed from the diagram toolbar. It can be shown by customizing perspectives.
- Smart package can be set as the scope for passive or active validation.
- The Collapse All and Collapse Selected Recursively buttons are added to the Containment Tree, Structure Tree, Lock View and Diagrams tabs.

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#### Collaboration

# **Pre-Commit Validation**

We are introducing a new feature dedicated for server project validation - pre-commit validation. This validation will ensure that your project will be committed to the Teamwork Cloud without unwanted errors.

🛛 Commit is r	not allowed			×			
The commit cannot be executed, because model validation reached the specified severity threshold. Please fix the violations and then try committing the project again.							
	Ore-Commit Validation Results     Pre-Commit Validation Results     □☆ □☆ □☆ 日☆ ☆ ☆			€ 4 ×			
	Element	<sup>1</sup> Severity	Abbreviation	Message			
	Suspect Links     IPlane wheels     Satisfy[Wings -> Plane wings     Wings     ValidationSuites     Block	<ul> <li>▲ warning</li> <li>▲ warning</li> <li>▲ warning</li> <li>▲ warning</li> <li>⊗ error</li> <li>▲ warning</li> </ul>	SusDprElement SuspectLink SuspectLink [Error] [Warning]	The element is deprecated. The linked element was modified. The linked element was modified. Block name can't be empty Block should not be named as Block. It makes no sense.			
	1 Error, 4 Warnings						

After pre-commit validation project was not committed and pre-commit validation result panel opened.

Learn more about working with Pre-Commit Validation >>

# **Teamwork Cloud Used Projects Auto Update Plugin**

Previously updating used projects to their latest versions was only possible manually which required a significant amount of effort. In this release, we are bringing a new plugin which fully covers the use case with two internal tools:

- · Command-line utility that performs the actual update of used projects,
- Used Project Auto Update Wizard that just in a few simple steps helps to configure the necessary input file for the command-line utility.

🔀 Used Projects Auto Update	Wizard		×	
Generate properties file for u Select the location of the genera				
		🔀 Used Projects Auto Update	Wizard	×
<ul> <li>1. Specify Properties</li> <li>2. Select Used Projects</li> </ul>	Username: Administrator Properties file: C: \Users \vikrub \Desktop \Da	Generate properties file for Select used projects you want t		
		1. Specify Properties	🕅 🕸 🔹 (i)	
		② 2. Select Used Projects	Name	Status
	< Back Next >			<ul> <li>Cannot be updated due to cyclic usage</li> <li>OK</li> <li>OK</li> <li>Cannot be updated due to read-only using project</li> <li>Cannot be updated due to read-only using project</li> </ul>
			< Back	Next > Generate Cancel Help

Used Projects Auto Update Wizard dialogs.

Learn more about working with Used Projects Auto Update Plugin >>

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# **Major versions of Used Projects**

Collaborating in a team on a project which has a lot of used projects that tend to change frequently, results in a huge number of different used project versions on the server. However, only some of the versions are of significant importance, requiring to switch their versions in the using project. Considering that, we developed a mechanism which allows to specify when an update to a new used project version should be triggered.

Learn more about working with Major versions of Used Projects >>

# **Commit flow enhancements**

Usability of Commit Project to the Server dialog was improved by:

- automatically saves commit comment draft for later use,
- users can quickly mark server project version as major,
- commit information as commit comment and commit tag are remembered in case of unsuccessful commit.

Commit Project to the Server	×
Commit Project to the Server Enter a comment and commit changes to the server. Additionally, you may add special tags for the project you are committing and review local changes. Click More to see additional tabs.	
Comment:	<b>0</b>
Order Ticket diagram was added	Choose Comment  Choose Comment  Draft Major changes done to model
Version Tags Local Changes	<ul> <li>Auto-saved after "Time and Duration Constraints" p</li> <li>2 Auto-saved after "Time and Duration Constraints" p</li> <li>3 Auto-migrated due to profile changes in MagicDraw</li> </ul>
Add special tags for this version:	ersion
	OK Cance
Edit Add Remov	ve
Commit Cancel	Help

Improved Commit Project to the Server dialog.

Learn more about working with Commit flow enhancements >>

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×

# **Hide Used Projects**

The Hidden Packages feature was improved. Now users can not only hide packages in their main model, but select a whole used project to be cut as well. This is useful whenever you want to avoid having unnecessary indirect project usages upon using a stripped-down version of your library or sub-system. Moreover, from now on a change in Hidden Packages configuration is treated as a model change and reported as such in various change-related panels. To finish-up Hidden Packages improvements for this release, we implemented a mechanism that notifies whenever a dedicated branch holding a strippeddown version of the model becomes inactive in other words - model content is no more hidden.

Hidden Packages Hide or unhide packages Choose the package(s) to hide (cut) or unhide in the model. in a dedicated branch after you commit the main project.	A new stripped model version for use in other projects will be created	
All data:	Hidden Packages:	
Sodel (by Administrator)       - CanceReservation (by Administrator)       - Licen Library Item (by Administrator)       - Order Entry (by Administrator)       - Droder Entry (by Administrator)       - Administratory       - Adminis	ConceReservation Model [Alarm system/trunk #1] Model [MagicLibrary Requirements/Activity_diagram #40] B Containment #0 Diagrams @ Lock View Containment Containment Containment #0 Diagrams #0	
	b-a       Project Usages       Ø Updated 2 minutes ago       Op       Imutes ago	Added Added Deleted Modified/Move
	Code Fight Code Ticket (37 elements)      Code Ticket (37	
	Model [Time and Duration Constraints/trunk #1]	

Hide used projects as other packages. Changes will be shown in Containment tree and various change-related panels (e.g. Change Sets).

Learn more about working with Hidden Packages >>

# **Other Enhancements and Changes**

- The element locking feature was extended, now it is possible to lock elements without need to update a project to the latest version. However, this
  applies only for elements that are not modified in a latest version on the server.
- For the convenience of the user, the Package permissions feature has been extended with an ability to assign permissions for the whole group of users.
- As project development goes, users might end up with a long list of branches, which consist of working branches and branches which are left only for historic purpose. To make it easier to navigate in lists like this, now user simply can archivate branches.
- We extend usability of several collaboration-related dialogs by adding search bar. This will help to deal with a large amount of projects in dialogs like Use Server Project, History, Open Server Project.
- We improved Mount relation display in the containment tree, this improvement will allow easily distinguish mounted package and immediately
  know from which used project it came.

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#### **Other Features**

# **Report Wizard enhancements**

- Report Wizard provides a configuration to add more report data directories by creating a report.properties file in the Report Wizard plugin directory. You can declare the template\_loc parameter in the report.properties file to specify another report data directory and also specify the t emplate\_loc parameter for multiple report data directories by using a semicolon (;) to separate each of the directories. Learn how to configure mounting more report data directories >>
- Report Wizard now supports Cameo Collaborator, replacing the obsolete Web Publisher Collaboration report that is no longer supported. Cameo Collaborator for Alfresco is a web-based solution for publishing and reviewing models online to present models in a simplified form, making it convenient to review models and diagrams in a transparent, collaborative environment so that the entire project team can be updated with any changes made to the model. Learn more about Web Publisher 2.0 Report as one of the default templates of the report engine and Cameo Collaborator for Alfresco >>
- isignored() is now available for use in model validation tool API to get an isignored value to check whether the validated element is ignored or not. Learn more about isignored() to get the validation data from validation results >>
- There are now the other ways of obtaining a customization property, or optionally as a String value, from the specified applied stereotype of the element. Learn how to use the functions to get customization property and the String value >>

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# Key Issues Fixed in this Service Pack

#### Performance related issues

- The issue when java.lang.ClassCastException is shown when executing Diagrams / Full reports in Differences dialog after Compare projects has been fixed.
- The exception is no longer shown when parsing property type in browser.
- The issue when invoking Go To > Usages in Diagrams, freezes UI for a minute has been fixed.
- Unhandled error no longer appears when user has no permission to see used projects.
- Exception no longer occurs in ModulesVersionPanel while changing the selected module.
- The issue where java.lang.OutOfMemoryError: Java heap space is shown when updating teamwork project because there are too many ObjectProperties objects has been fixed.
- The issue concerning extremely slow commit over VPN if many diagrams are modified, has been fixed.
- The issue where adornments are recalculated even if scope elements are not changed has been fixed.
- The issue where MagicDraw missed some letters and laged in Select Elements Search dialog with 2 million elements project has been fixed.
- Parse and Create Parameters feature of Constraint Parameters now works correct.

#### **Diagramming related issues**

- Note with Text Display Mode set to Do Not Show no longer retains visible section.
- The issue where the inappropriate properties were suggested in Smart Manipulator for class, has been fixed.
- The issue where moving an option combined fragment does not move the states invariant it contains, has been fixed.
- The issue where the use of 'Pusher' control does not move state invariants in proportion to other symbols, has been fixed.

#### **Report Wizard related issues**

- URLs in generated reports now become valid for PDF conversion.
- No error is displayed when generating reports from the **\$array[0]** template with projects.
- Asterisks can now be used in the query for QueryTool without warning messages.
- Activity Diagram Specification and Sequence Diagram Specification templates have successfully included the SysML Sequence diagram in the Appendix section.
- Report outputs are no longer missing when selecting element scope using the Add Recursively button.
- The list of selected objects now corresponds to the display of selected scope in the All data pane when selecting element scope using the Add All button.

- The search results grouped by element type no longer collapses after clicking the Replace button.
- OCL cache no longer fails if BasicEList is passed as a key.
  The issue where a corresponding parameter is created for the method without name has been fixed.
- Item Flow names are no longer lost after cross project refactoring.

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😡 can check the list of publicly available issues or your own reported issues fixed in Cameo Enterprise Architecture 19.0 SP1.

Note: You will be required to login. Use the same username and password as for www.nomagic.com.

#### Version news of servers and plugins

- Teamwork Cloud 19.0 SP1
- SysML Plugin 19.0 SP1
- Cameo Simulation Toolkit 19.0 SP1
- UAF Plugin 19.0 SP1
- Cameo DataHub 19.0 SP1

#### Plugins updated due to compatibility purposes

- Cameo Business Modeler Plugin 19.0 SP1
- Cameo Requirements Modeler Plugin 19.0 SP1

# **Cameo Enterprise Architecture**

#### News of earlier versions

documentation

- CEA 19.0 LTR
- CEA 18.5 FR
- CEA 18.4 FR
- CEA 18.3 FR
- Product News Archive
- Cameo Enterprise Architecture 19.0 LTR SP1