

Project tool

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\$project is a project reference enabling a template to return the project information.

\$project.getName()

Returns a project name.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project name.

\$project.getTitle()

Gets a project title.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project title.

\$project.getFileName()

Gets a project filename.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project filename.

\$project.getExtension()

Gets a project filename extension.

 **Note**
This function is only for local projects.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project filename extension.

\$project.getDirectory()

Get a project directory name.

 **Note**
This function is only for local projects.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project directory name.

\$project.getVersionList()

Returns a list of version information from an open Server project.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.util.List	A list of com.nomagic.magicdraw.magicreport.tools.ProjectVersion .

\$project.getDiagrams()

Returns all existing diagrams stored in a particular project, including diagrams in auxiliary resources.

	Name	Type	Description
Return	-	java.util.Collection	A collection of diagram instances.

 **Note**
\$project.getDiagrams() returns all the diagrams in the selected scope, including diagrams in auxiliary resources.

\$project.getDiagrams(type)

Returns existing diagrams of a given type stored in a particular project.

	Name	Type	Description
Parameter(s)	type	java.lang.String	A diagram type.
Return	-	java.util.Collection	A collection of diagram instances.

Sample code

```
#set($classDiagram = $project.getDiagrams("Class Diagram"))
#foreach($cl in $classDiagram)
$cl.name
#end
```

- "Class Diagram" is a diagram type.

\$project.getPresentationDiagrams()

Returns all existing presentation diagrams stored in a particular project.

	Name	Type	Description
Return	-	java.util.Collection	A collection of diagram views.

\$project.getPresentationDiagrams(type)

Returns all existing presentation diagrams of a given type stored in a particular project.

	Name	Type	Description
Parameter(s)	type	java.lang.String	A diagram type.
Return	-	java.util.Collection	A collection of diagram views.

Sample code

```
#set($classDiagram = $project.getPresentationDiagrams("Class Diagram"))
#foreach($cl in $classDiagram)
$cl.name
#end
```

- “Class Diagram” is a diagram type.

\$project.isRemote()

Returns the remote or non-remote state of a project.

	Name	Type	Description
Return	-	java.lang.Boolean	Return true if a project is a remote project, otherwise false.

\$project.isDirty()

Returns true if that particular project was modified after it had been saved or loaded.

	Name	Type	Description
Return	-	java.lang.Boolean	Return true if a project was modified after it had been saved/loaded, otherwise false.

\$project.getElementByID(id)

Returns an element with a given ID.

	Name	Type	Description
Parameter(s)	ID	java.lang.String	An element ID.
Return	-	com.nomagic.magicdraw.uml.BaseElement	An element with a given ID or null if the element with such ID is not registered in the project.

Sample code

```
#set($ele = $project.getElementByID("_9_0_62a020a_1105704887361_983947_8206"))
$ele.name
$ele.humanType
```

- “_9_0_62a020a_1105704887361_983947_8206” is the element’s ID number.

\$project.getAllElementId()

Returns a collection of all element IDs in a project.

	Name	Type	Description
Return	-	java.util.Collection	A collection of all element IDs in a project.

\$project.getXmiVersion()

Returns the XMI version of a project.

	Name	Type	Description
Return	-	int	An XMI version.

\$project.getVersion()

Return a project version number.

	Name	Type	Description
Return	-	long	A project version number.

\$project.getModel()

Returns a model (the root container of all model structures).

	Name	Type	Description
Return	-	com.nomagic.uml2.ext.magicdraw.auxiliaryconstructs.mdmodels.Model	A model.



\$project.getModel() is deprecated since MagicDraw 18.2, please use **\$project.getPrimaryModel()** instead

\$project.getPrimaryModel()

Returns the primary (main) model of the project (not including the ones from modules (attached projects)).

	Name	Type	Description
Return	-	com.nomagic.uml2.ext.magicdraw.classes.mdkernel.Package	The primary model of the project.

\$project.getAllModels()

Returns a list of models in the project (the primary model of the project and all the models of the modules(attached projects)).

	Name	Type	Description
Return	-	Java.util.List	A list of models.

\$project.getModuleList()

Returns a list of used server and local modules from a current project.

	Name	Type	Description
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getModuleList(includeAuxiliary)

Returns a list of used server and local modules as well as auxiliary resources from a current project.

	Name	Type	Description
Parameter(s)	includeAuxiliary	boolean	Returns modules including auxiliary resources if this value is true (false by default).

Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .
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\$project.getSharedModule()

Returns a list of shared modules from a current project.

	Name	Type	Description
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getSharedModule(projectModule)

Returns a list of shared modules from a specified project module.

	Name	Type	Description
Parameter(s)	projectModule	com.nomagic.magicdraw.magicreport.tools.ProjectModule	A project module.
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getServerModule()

Returns a list of used server modules.

	Name	Type	Description
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getServerModule(includeAuxiliary)

Returns a list of used server modules as well as auxiliary resources.

	Name	Type	Description
Parameter(s)	includeAuxiliary	boolean	Returns server modules including auxiliary resources if this value is true (false by default).
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getLocalModule()

Returns a list of used local modules.

	Name	Type	Description
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getLocalModule(includeAuxiliary)

Returns a list of used local modules as well as auxiliary resources.

	Name	Type	Description
Parameter(s)	includeAuxiliary	boolean	Returns local modules including auxiliary resources if this value is true (false by default).
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

\$project.getAuxiliaryResource()

Returns a list of auxiliary resources.

	Name	Type	Description
Return	-	java.util.Collection	A collection of com.nomagic.magicdraw.magicreport.tools.ProjectModule .

The full class name is com.nomagic.magicdraw.magicreport.tools.ProjectVersion.

ProjectVersion is a class that represents some version of the project or module. It contains date, user, number, etc.

ProjectVersion contains the following properties:

Property	Return type	Description
comment	java.lang.String	Returns a version committed comment.
date	java.util.Date	Returns a committed date.
dateAsString	java.lang.String	Returns a committed date as text.
number	long	Returns a committed version.
numberAsString	java.lang.String	Returns a committed version as text.
user	java.lang.String	Returns a committer's name.
version	java.lang.Object	Returns a version object com.nomagic.magicdraw.esi.project.project.IEsiVersionDescriptor for a Teamwork Cloud project.
tags	java.util.List<java.lang.String>	Returns all tags.

Sample code

```
Current version : $project.version
All version:
#foreach ($version in $project.getVersionList())
    Date :                      $version.date
    Number :                    $version.number
    Number As String :          $version.numberAsString
    User :                      $version.user
    Comment :                   $version.comment
    Tags:
#foreach($tag in $version.tags)
    - tag
#end
---
#end
```

Project Module

The full class name is com.nomagic.magicdraw.magicreport.tools.ProjectModule.

ProjectModule is a wrapper Class of an attached project (com.nomagic.ci.persistence.IAttachedProject) that represents a special kind of the project that is used as a component in the current project.

The following are some properties and methods of ProjectModule:

Property / Method	Return type	Description
representationString	java.lang.String	Returns user-friendly representation string about the module.
description	java.lang.String	Returns project description of the module.
version	long	Returns a version number of the module.
remoteID	java.lang.String	Returns a remote ID for the module.
URI	java.net.URI	Converts EMF URI to java.net.URI.
versionList	java.util.List< ProjectVersion >	Returns a list of version descriptors of the module.
isRemote()	boolean	Checks if the module is remote - from Teamwork Cloud.

Sample code

```
#foreach($module in $project.getModuleList())
    Name : $module.representationString
    Description : $module.description
    Version : $module.version
    RemoteID : $module.remoteID
    URI : $module.URI
#if($module.isRemote())
#set($version = $module.projectVersion)
    Current module version :
        date : $version.date
        number : $version.number
        numberAsString : $version.numberAsString
        user : $version.user
        comment : $version.comment
        tags:
#foreach($tag in $version.tags)
- $tag
#end
    All module versions :
#foreach($version in $module.versionList)
        date : $version.date
        number : $version.number
        numberAsString : $version.numberAsString
        user : $version.usercomment : $version.comment
        tags:
#foreach($tag in $version.tags)
- $tag
#end
-----
#end
#end
    Shared module:
#foreach ($child in $project.getSharedModule($module))
- $child.representationString
#end
#end
```