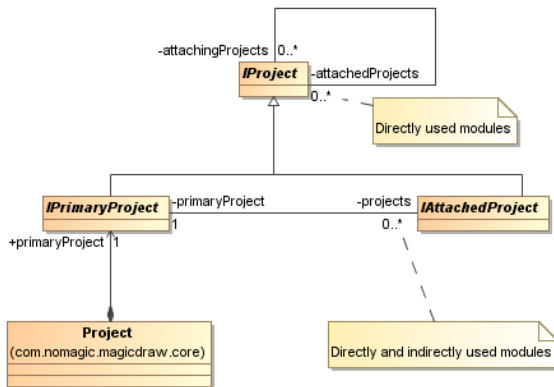


Project (decomposition) structure API changes

The following figure shows the domain model of the project decomposition.



The core change is an introduction of [com.nomagic.ci.persistence.IProject](#) - [com.nomagic.ci.persistence.IPrimaryProject](#) and [com.nomagic.ci.persistence.IAttachedProject](#). [IPrimaryProject](#) is a single instance in the scope of a project. [IPrimaryProject](#) can have attached (used) any number of [IAttachedProject](#) (used projects), while [IAttachedProject](#) itself can attach other used projects ([IAttachedProject](#)).

The earlier than 17.0.1 project structure API made deprecated in version 17.0.1. The deprecated classes from the [com.nomagic.magicdraw.core.modules](#) package are:

[Committable](#)
[IProject](#)
[ModuleDescriptor](#)
[ModulesManager](#)
[MountHelper](#)
[MountInfo](#)
[MountTable](#)
[MountTableListener](#)
[ShareInfo](#)
[ShareTable](#)

There is no straight one to one mapping, but the set of deprecated classes are now generally replaced by the set of the following classes:

[com.nomagic.magicdraw.core.ProjectUtilities](#)
[com.nomagic.ci.persistence.IProject](#)
[com.nomagic.ci.persistence.IPrimaryProject](#)
[com.nomagic.ci.persistence.IAttachedProject](#)
[com.nomagic.ci.persistence.decomposition.ProjectAttachmentConfiguration](#)
[com.nomagic.ci.persistence.mounting.IMountPoint](#)
[com.nomagic.ci.persistence.sharing.ISharePoint](#)

[ProjectUtilities](#) and [com.nomagic.magicdraw.core.modules.ModulesService](#) utility classes are introduced to help working with a new project decomposition structure and should replace [MountHelper](#).

[ModuleDescriptor](#) is replaced with a combination of [IAttachedProject](#) and [com.nomagic.ci.persistence.decomposition.ProjectAttachmentConfiguration](#). There is separate [ModuleDescriptor](#) for every (same) project usage in MagicDraw 17.0 or earlier versions, while there is a single [IAttachedProject](#) for the used project, but a separate [ProjectAttachmentConfiguration](#) for every project usage in the current version.

The example of the MagicDraw 17.0 and earlier version code:

```
        final Collection<ModuleDescriptor> projectModules = project.  
getModulesManager().getMountTable().getModules()  
        for (ModuleDescriptor moduleDescriptor : projectModules)  
        {  
            // properties of the project usage  
            final AutoLoadKind autoLoadKind = moduleDescriptor.  
getAutoLoadType();  
            final boolean loadIndex = moduleDescriptor.isLoadIndex();  
            final boolean editable = moduleDescriptor.isEditable();  
        }  
    }
```

The example of a new MagicDraw 17.0.2 code:

```
        final IPrimaryProject primaryProject = project.getPrimaryProject();  
        final Collection<IAttachedProject> projectAttachedProjects =  
ProjectUtilities.getAttachedProjects(primaryProject);  
        for (IAttachedProject attachedProject : projectAttachedProjects)  
        {  
            final ProjectAttachmentConfiguration  
attachmentConfiguration = ProjectUtilities.getAttachment(primaryProject,  
attachedProject);  
            // properties of the project usage  
            final AutoLoadKind autoLoadKind = ProjectUtilities.  
getAutoLoadKind(attachmentConfiguration);  
            final boolean loadIndex = ProjectUtilities.isLoadIndex  
(attachmentConfiguration);  
            final boolean editable = !attachmentConfiguration.  
isReadOnly();  
        }  
    }
```