## Easier refactoring of composite used projects

One of the problems caused by the old approach described in Automated project usages, was in refactoring composite used projects (used projects composed of sub-used projects). Whenever a composite used project was re-arranged by removing or re-importing sub-used projects, all of the projects or used projects using this used project more often than not became affected.

The following examples illustrate this problem.

Section 2. Example 1 section of the components with 3 sub-used projects: Capacitors, Inductances, and Resistances. Consider another project RadioSet, which uses the used project ElectricComponents.

Example 2 the problem was "freezing" the used project's version. For instance, the project RadioSet uses the 100<sup>th</sup> version of the used project ElectricCompon ents, which in turn uses the 150<sup>th</sup> version of the sub-used project Resistances.

## Old problematic behavior Related pages

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Whenever the project RadioSet referenced the sub-used project Resistances, the direct usage would be created to the 150<sup>th</sup> version of it. If you wanted RadioSet Capacitors, to migrate the project RadioSet to use the 200<sup>th</sup> version of the used project ElectricComponents, which used the 300<sup>th</sup> version of the sub-used project R esistan Resija Setrsinaluctantibes wanted occur, since the direct usage would be still pinned to the 150th version

New behavioret Resistances

Effective so that so that so the version was a linear so the content of the conte usage paths.

If you tried to refactor the used project ElectricComponents by removing its sub-used projects and re-importing their contents, the project RadioSet

want to refactor your used project structure to reap the benefits of this feature.

## **New behavior**

As of version 17.0.3, a program creates automated used project usages instead of creating user-defined ones. So when the used project ElectricCompo nents is refactored, it keeps the same model elements but changes its structure. Furthermore, the automated usages in the project RadioSet are automatically rearranged

🚧 pAงเจยโคงร รัฐบุตรจังระทางโดย rearranged used project does not contain all the same elements it had before the rearrangement. Thus some automated usages may turn into unconfirmed ones. For more information about unconfirmed usages, see Controlling dependency creation between used projects.