

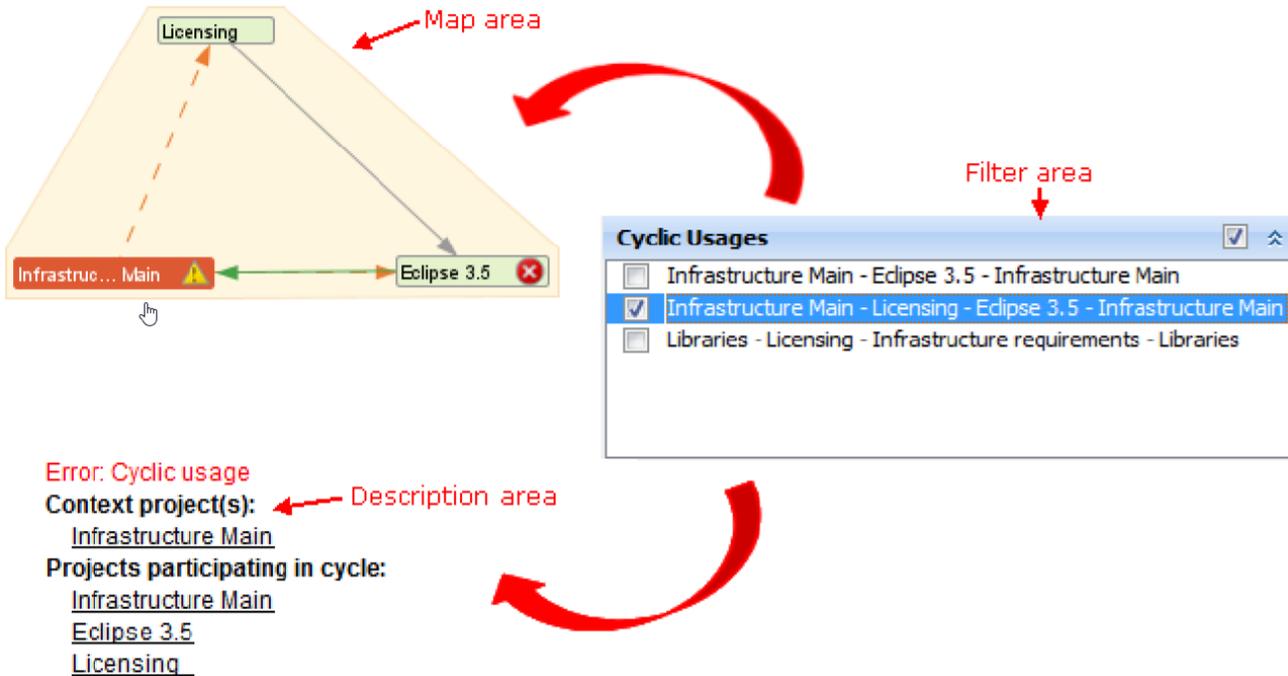
Solving Project Usage Problems

Using the Project Usage Map, you can identify usage problems. Then you can easily select and open projects that need to be fixed.

Resolving cyclic usages

Problem

When a project decomposition is used, the project is split into smaller projects. You can benefit from this decomposed project - you need to load only small part of the project instead of all of it. This reduces complexity and even improves performance. In addition to this, you would not expect and most likely not care to load the remaining parts of the main project each time you open a single part of it. This can happen if you have cyclic usages, i.e., project parts are using the main project. Typically, such usages increase complexity and reduce performance. Also, if the project takes part in a cycle, it cannot be reused as an independent part of another project. Other projects taking part in the cycle will be automatically used as well. Cycles are often a symptom of unintentional usages, created unknowingly by the user.



Identifying cyclic usages

Solution

The Project Usage Map automatically identifies cycles and highlights them in the Repository View. You can then open a Project Usage Map for the suspected projects participating in a cycle to analyze it more closely and if necessary - break usages that cause cycles.

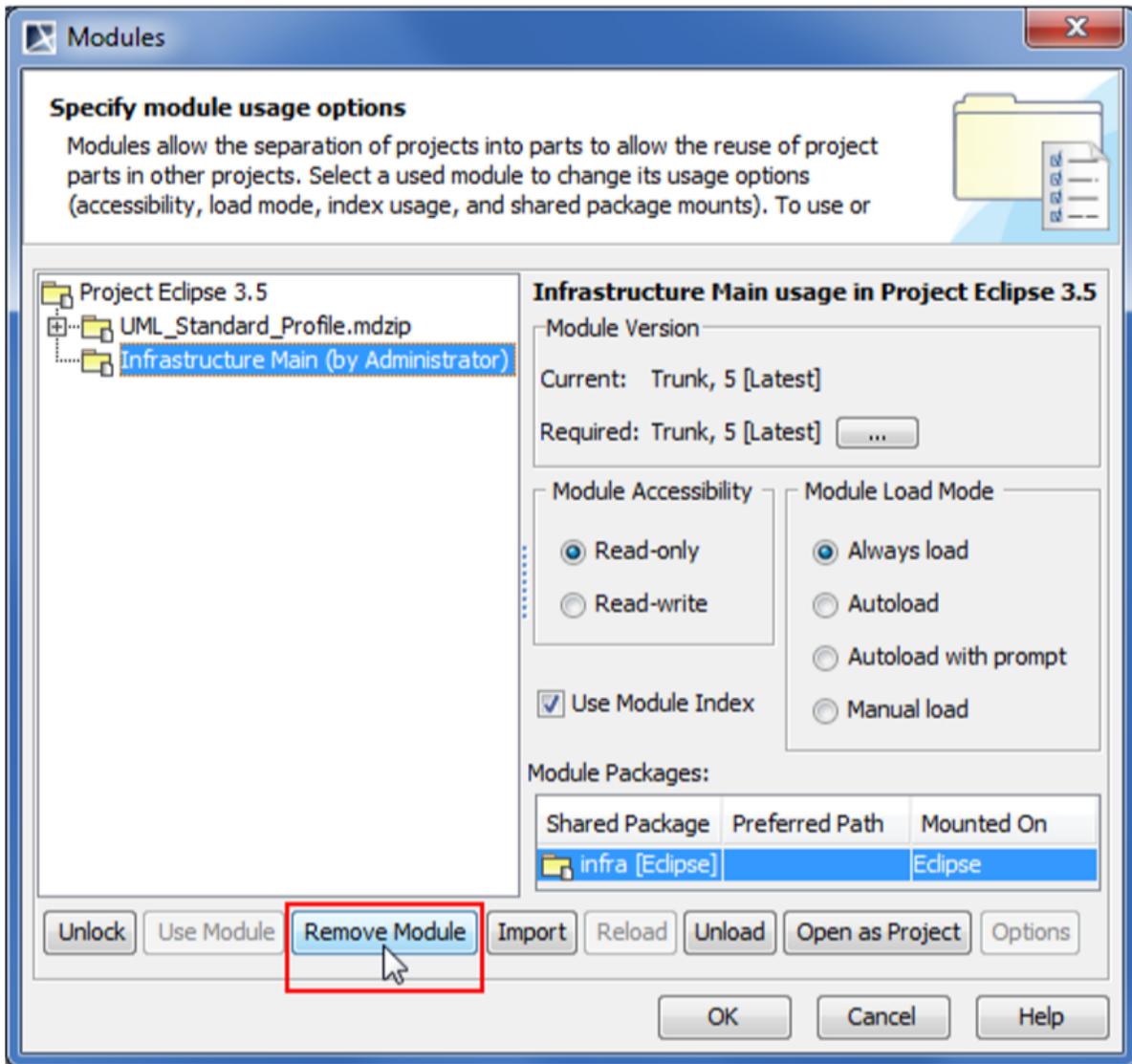
To resolve the cyclic usages



Model Level

Be sure to check and resolve the model level usages between the project and module.

1. Open the main project of the cycle.
2. From the **Options** menu, select **Modules**. The **Modules** dialog opens.
3. Select a module which should be removed, and click the **Lock** button.
4. Click the **RemoveModule** button.
5. Click **OK** when you are done.

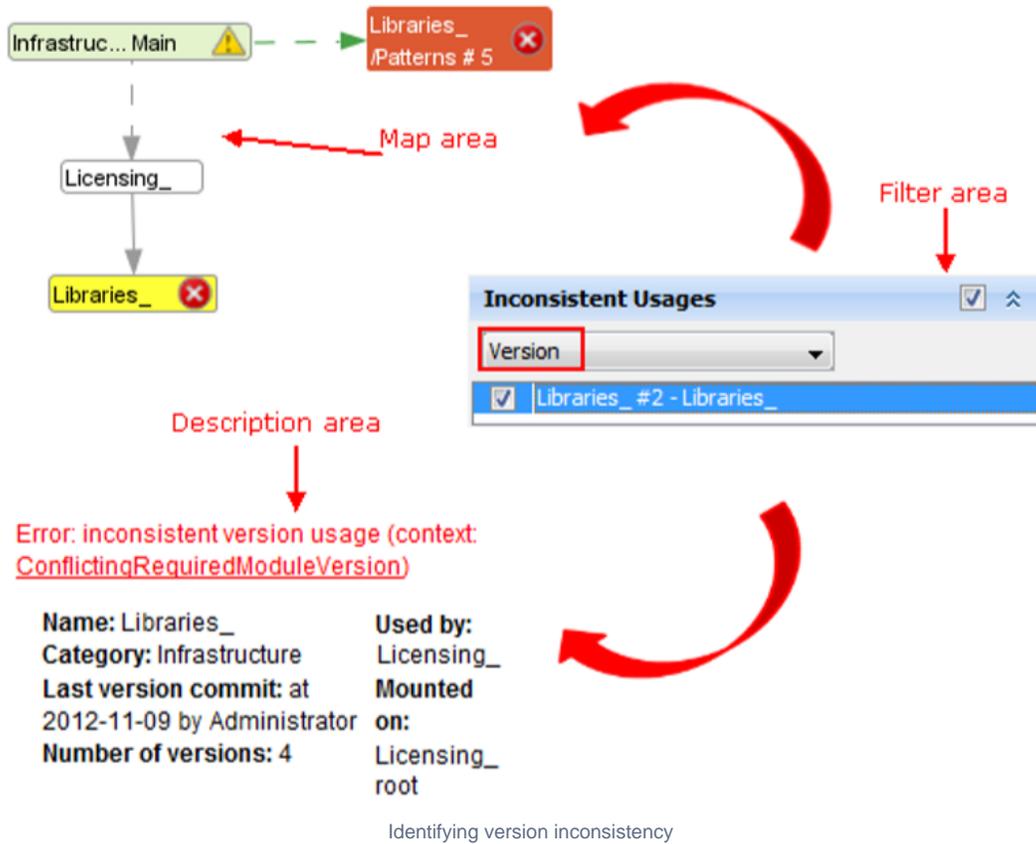


Removing module to break cyclic usage

Resolving version inconsistencies

Problem

You are using different versions of the same project in your main project.



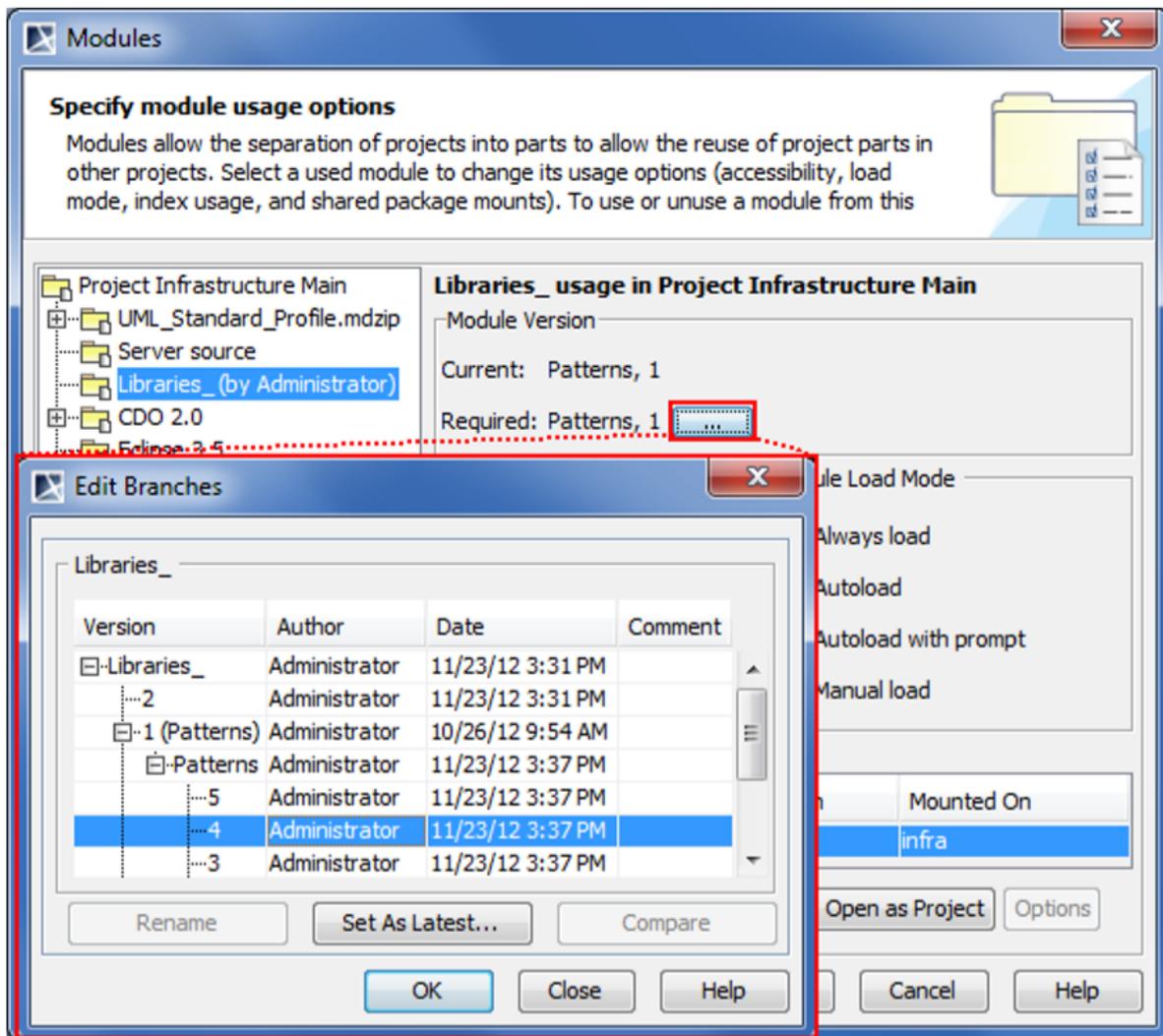
Solution

The Project Usage Map highlights these inconsistencies. You can then open projects with inconsistent usages and fix them by unifying the used project version.

To resolve a version inconsistency

 **Model Levels** ensure to check and resolve the model level usages between the project and module.

1. Open a project using the projects of inconsistent version.
2. From the **Options** menu, select **Modules**. The **Modules** dialog opens.
3. Select a module which version you want to change, and click the **Lock** button.
4. In the **ModuleVersion** area, click the ... button. The **EditBranches** dialog opens.
5. Select the wanted version.
6. Click **OK** when you are done.

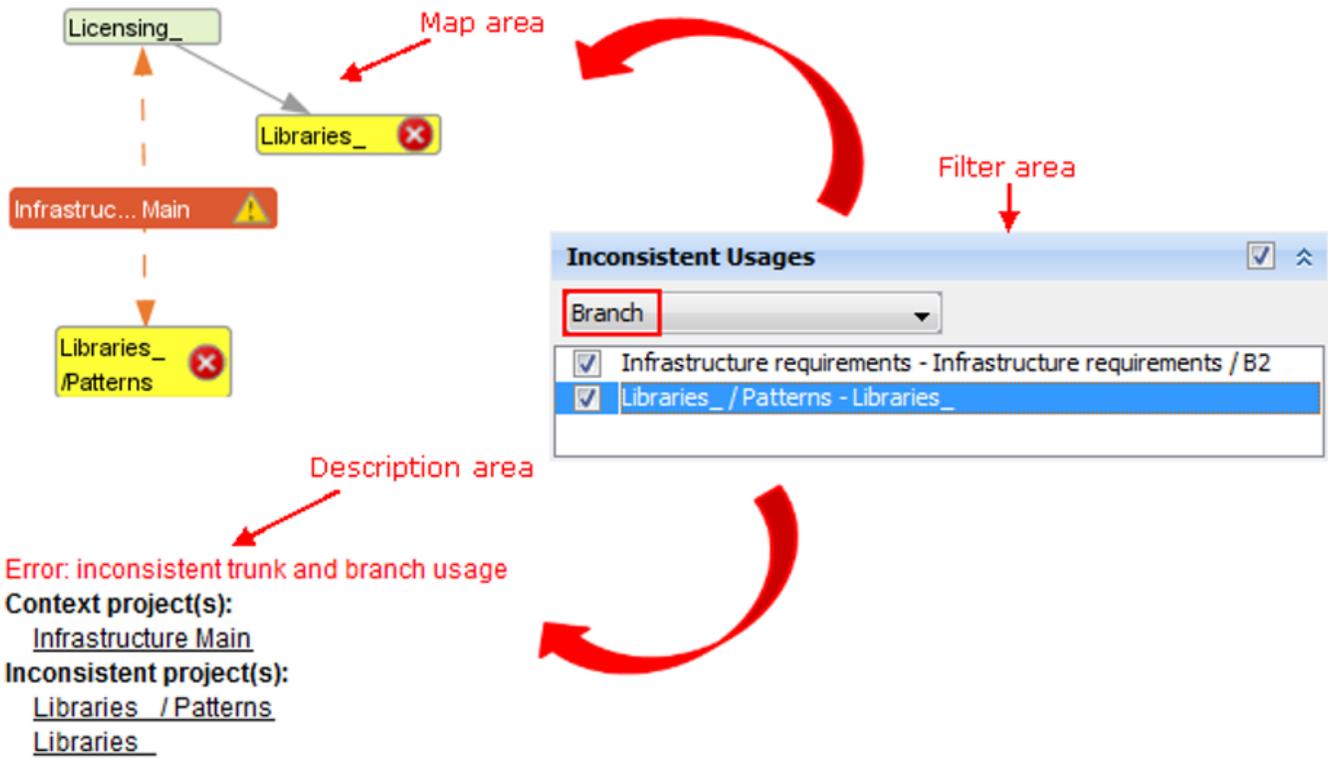


Changing module version

Resolving branch inconsistencies

Problem

You are using a version from the trunk and branch of the same project in your main project



Identifying branch inconsistency

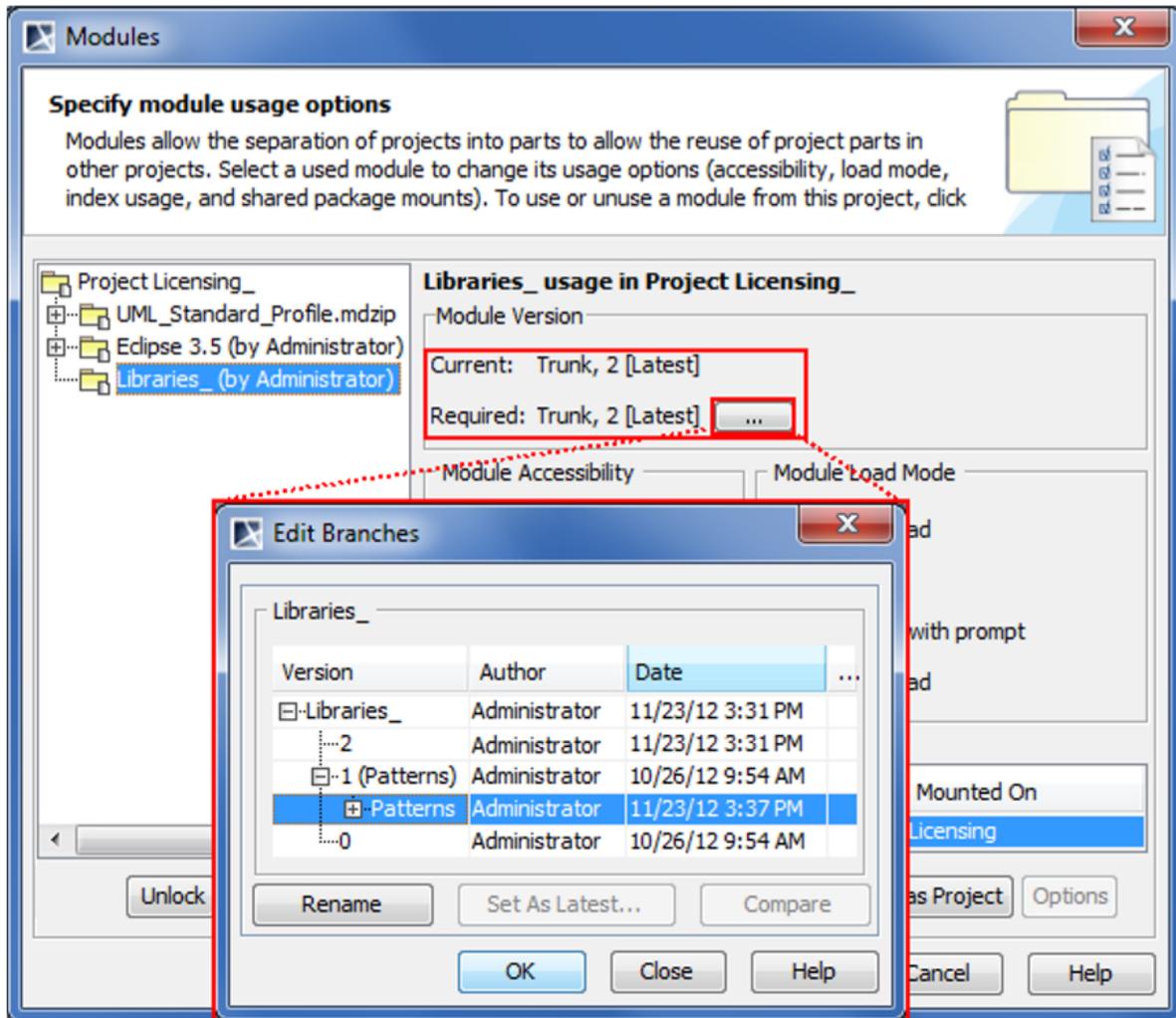
Solution

The Project Usage Map highlights these inconsistencies. You can then open projects with inconsistent usages and fix them by unifying the used project branch.

To resolve a branch inconsistency

 **Model Levels** ensure to check and resolve the model level usages between the project and module.

1. Open a project using the projects of inconsistent version.
2. From the **Options** menu, select **Modules**. The **Modules** dialog opens.
3. Select a module which version you want to change, and click the **Lock** button.
4. In the **ModuleVersion** area, click the ... button. The **EditBranches** dialog opens.
5. Select the wanted branch or trunk.
6. Click **OK** when you are done.

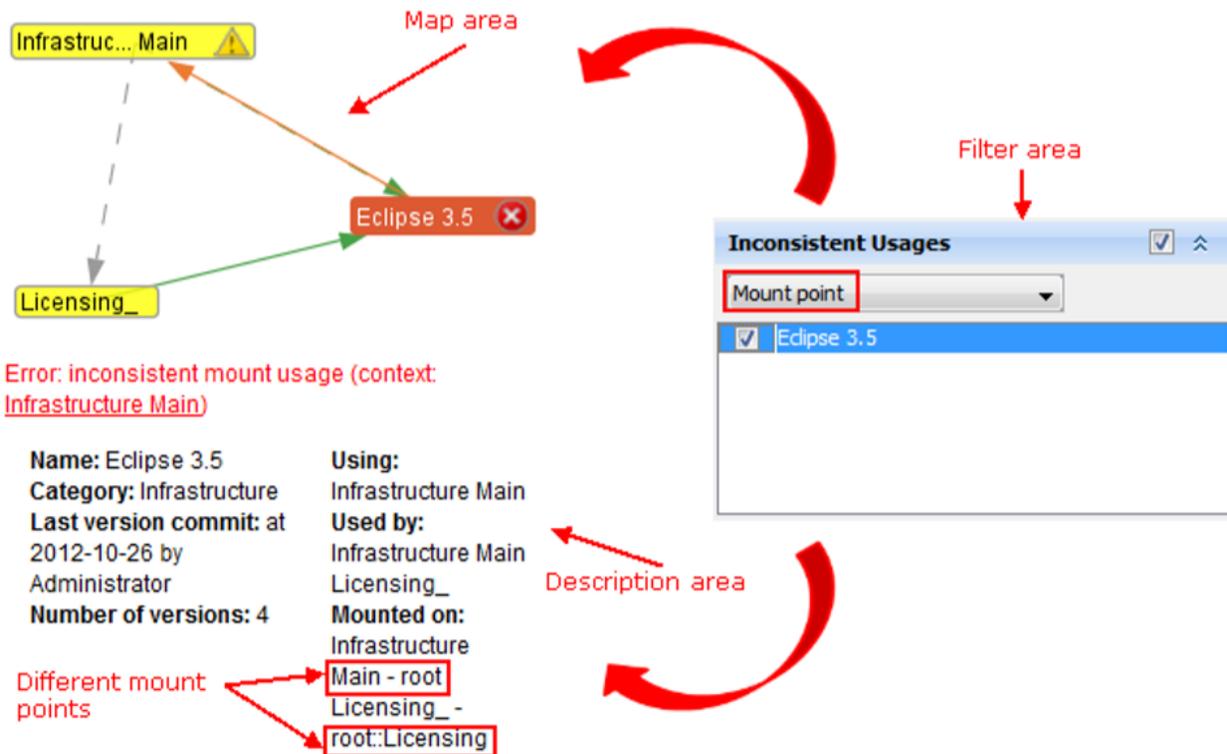


Changing module branch

Resolving mount point inconsistencies

Problem

You are mounting (mount - the other project usage in a particular package of the main project) the used project in different packages in your main project.



Identifying mount point inconsistency

Solution

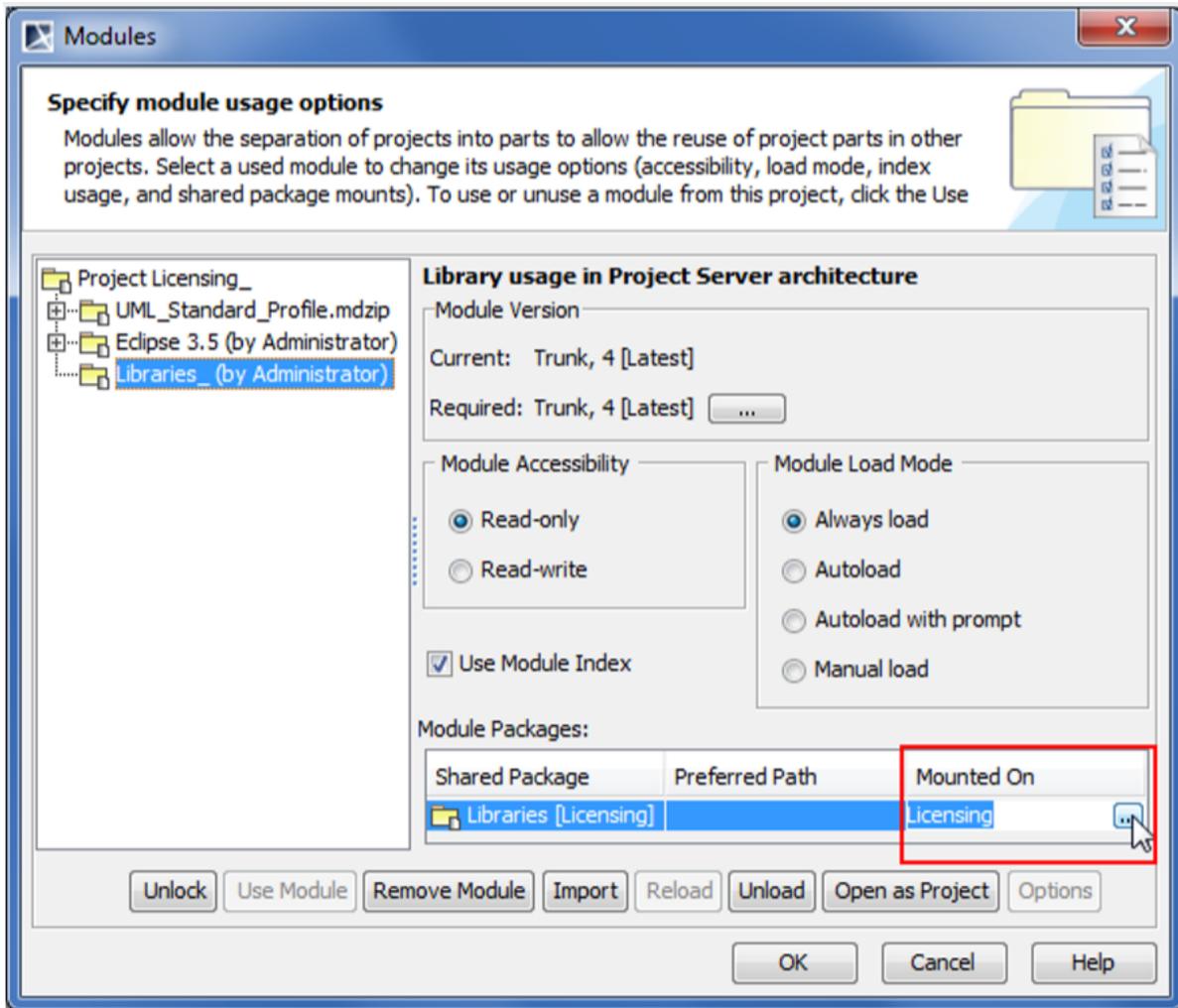
The Project Usage Map highlights these inconsistencies. You can then open projects with inconsistent usages and fix them by unifying the used project mounted package information.

To resolve a mount point inconsistency

Model Level

Be sure to check and resolve the model level usages between the project and module.

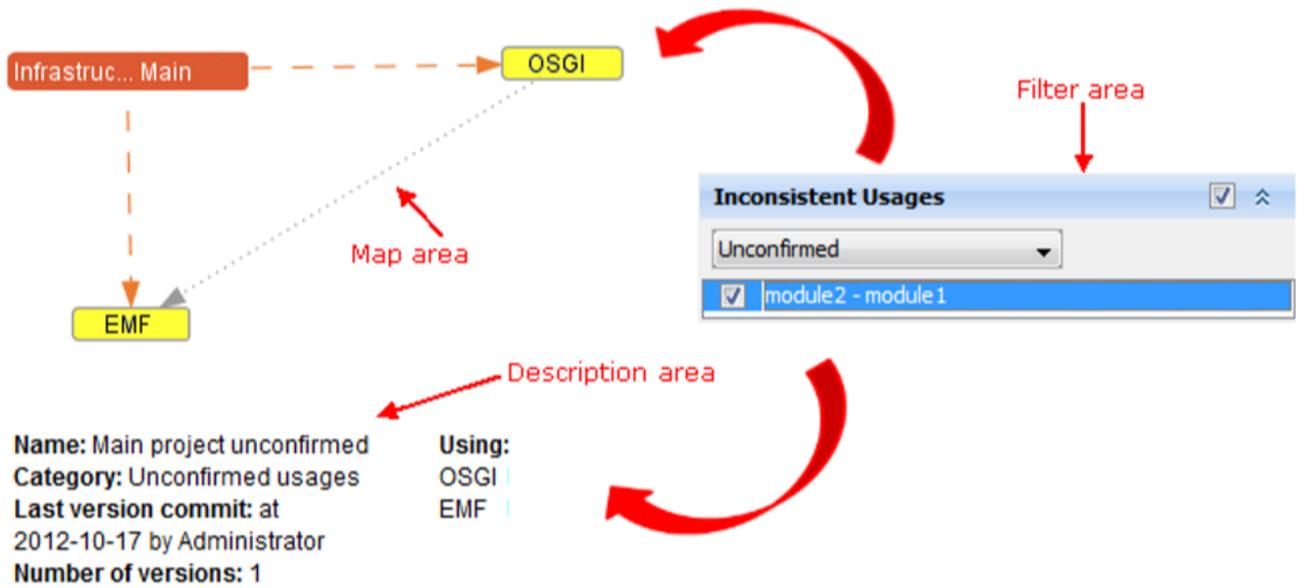
1. Open a project using the projects of inconsistent version.
2. From the **Options** menu, select **Modules**. The **Modules** dialog opens.
3. Select a module which version you want to change, and click the **Lock** button.
4. In the **Module Packages** table, select a wanted module.
5. In the **Mount On** cell, click the ... button. The **Select Package** dialog opens.
6. Select the wanted package and click **OK**.
7. Click **OK** when you are done.



Changing mount point

Resolving unconfirmed usages

This type of usages is created automatically.



Identifying unconfirmed usages

Solution

Model Level
 Be sure to check and resolve the model level usages between the project and module.

There are two ways to solve unconfirmed module usage situation - either confirm it or reject it.

If the module usage $A \Rightarrow B$ is good and necessary according to the end-user policy, it can be confirmed. I.e., the user-defined usage is to be created in place of the current unconfirmed automated module usage.

To do that, use the Confirm and use the module into `<module_name>` solver of the validation result. This solver opens the standard Use Module wizard and pre-selects the required module. When wizard is completed, the necessary user-defined module usage is created.

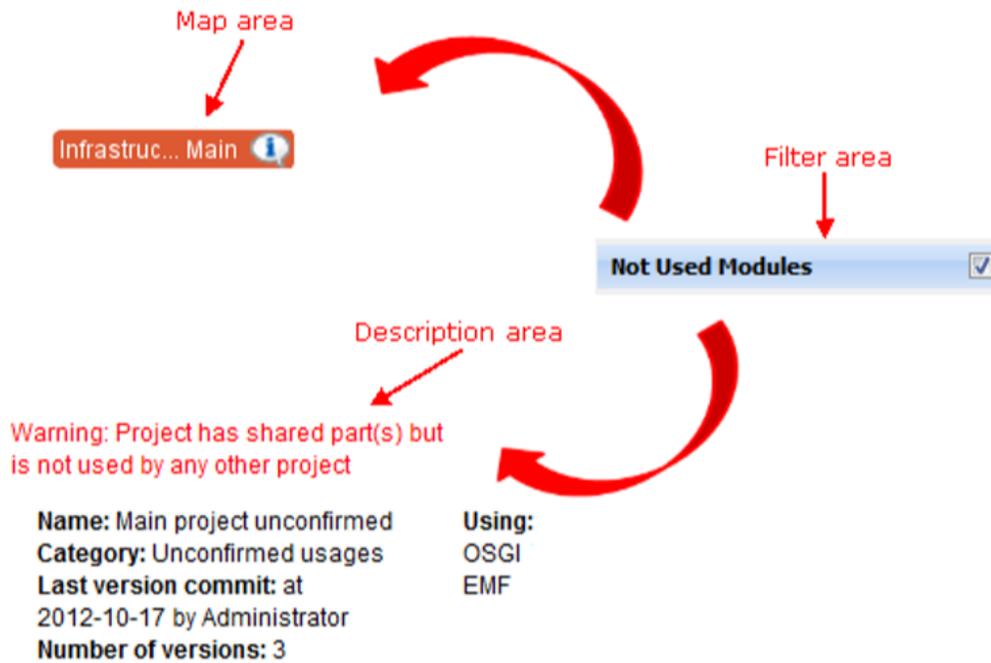
If the usage $A \Rightarrow B$ is not good according to the end-user policy (for example – leads to module usage cycles or is incorrect because of semantically there should be no dependency between these modules), then it needs to be rejected and removed. To remove the usage, the model-level references, which are causing this automated module usage need to be changed – either removed or redirected to different elements.

more information about resolving the unconfirmed usages, see [Resolving unconfirmed module usages](#).

Resolving not used modules problem

Problem

When the number of projects in the repository grows it is common for some of the projects to become outdated or not used anymore. You would prefer removing them BUT you are not sure if they are not used by some other, still-active project.



Identifying not used modules

Solution



Model Level

Be sure to check and resolve the model level usages between the project and module.

The Project Usage Map highlights unused modules. Based on this information, you can move all of the unused modules into the deprecated category or remove them entirely from the repository.

Related Pages:

- [Working with Project Usage Map](#)
- [Project Usage Map Window](#)
- [Solving Project Usage Problems](#)