

SAIC Digital Engineering (DE) Rhapsody

Model Federation Procedure

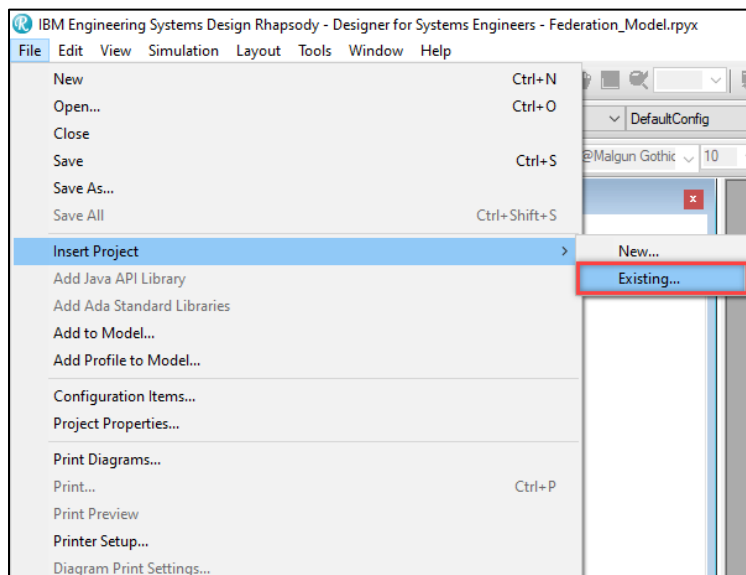
05/17/2023

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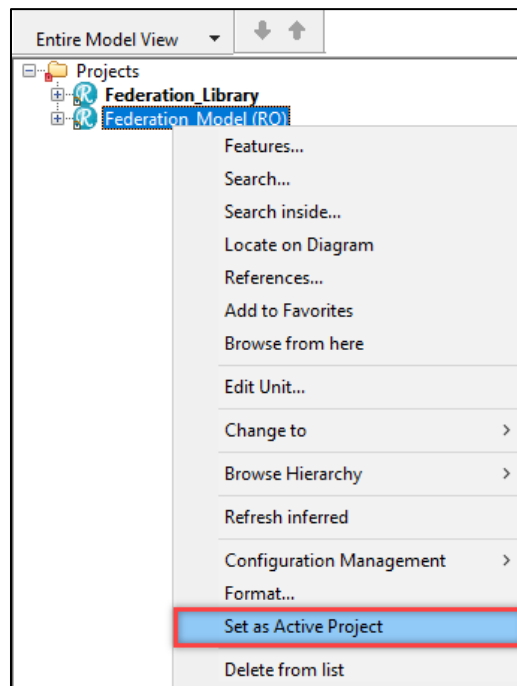
Rhapsody Project Usages

Rhapsody handles project usages differently than Cameo. For model elements to be reusable in another model, the model elements must be referenced from within the project of interest. If the model element is not referenced, the model elements will not be usable from within the project of interest. Packages are the only model element that can be carried over as a reference, to the project of interest. Once the package containing model elements is referenced appropriately, all model elements within the package are now available for reference within the model.

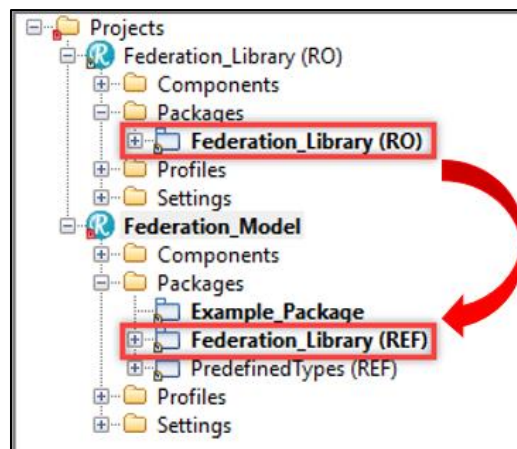
- To create references to existing project Packages:
 - From within your project:
 - Select File > Insert Project > Existing...



- Select the model of interest and insert project
 - Once the project is inserted, place the original project as the Active Project
 - Right click on project within the browser, select "Set as Active Project"



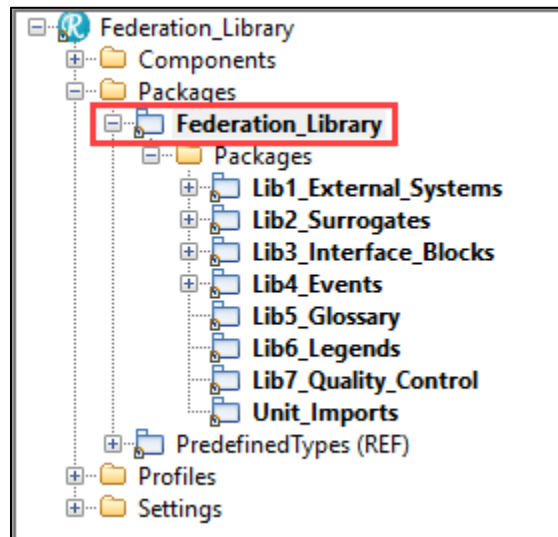
- Drag and drop the read-only reference package (indicated with (RO)) containing the model elements of interest into the active project.



- The package and all model elements contained in the package are now available for reuse as a reference (indicated with (REF))
- The referenced package (REF) and its contents are now read only from within the active project. It can be reused, but not modified as it is owned by the original model
- To make changes to the referenced model elements, make changes to the model element in the original project

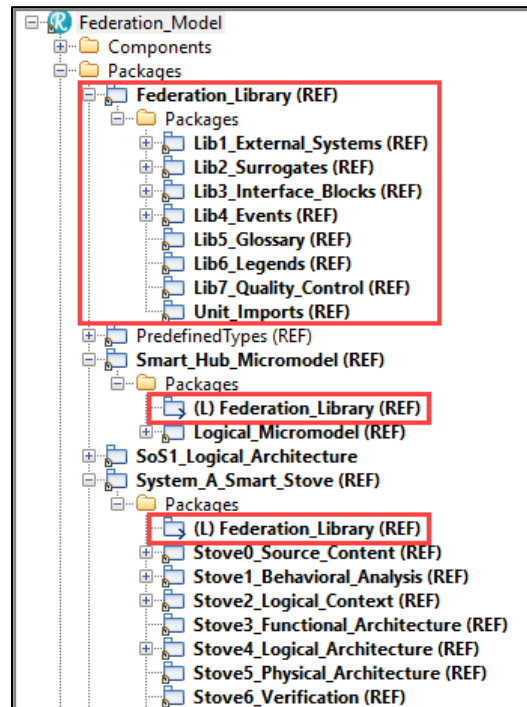
Rhapsody Project Usages for Model Federation

Within Rhapsody Project usages, it has been noted that the creation of references can only be created at the package level. Within SAIC's Model Federation Process, entire projects are referenced, as opposed to a single package. To avoid any project usage conflicts, the entire model is placed into a package, enabling the reuse of all model elements within the referenced package. To recreate, place the entire model that is to be referenced, within an "all encompassing" package. This package now contains the entire model, which is able to be referenced in any other model.



Model Federation Library Linking

The Model Federation Library is to be referenced within all models which share common model elements. This being the case, the Federation model and all Federated models will all be referencing the same Library model. Rhapsody can determine repeated uses of the same referenced package and will allow one linked Library to remain active, while the others are displayed as a link (indicated with (L)). This ensures that all models contained within the Federation Model, all use the same use of the Library. Whenever multiple uses of the Library (or any project usage) are to be referenced, be sure to reference the Library (or any project usage) first, prior to adding any other models containing the same references. This will ensure that the Library (or any project usage) will be available at the highest level, and linked in lower level models.



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