

Task 8: Creating OCL Constraints (Optional)

Now you have successfully defined your UML profile and implemented your UML profile editor. Your optional task is to define the OCL constraints for the connection Stereotypes. In UML profiling, there is no default constraints added to Stereotypes, so that your Stereotypes that extend UML connector meta-elements are free to connect any Stereotypes. This introduces problems in UML modelling, thus there is a need to check the validity of the connector Stereotypes. You are required to define 2 OCL constraints:

1. **checkEndTypes** – to check that the objects connected by the connector are of correct types.
2. **checkNavigability** – to check the direction of the connector is correct.

Due to the complexity of the UML metamodel, altogether with the complexity of OCL syntax, this task is optional. If you feel confident, please proceed.

Tasks:

1. **Define the checkEndTypes constraint for an arbitrary connector.**
2. **Define the checkNavigability constraint for an arbitrary connector.**
3. **If you find no problems with the previous tasks, define the OCL constraints for all connectors.**

Note: You have 60 minutes to complete this task