Automatic Instantiation Wizard

This tool allows you to create instances of various entities with just a few clicks. It is useful for working with complex models, and for assembling large systems from parts.

While creating instances automatically, you can:

- Select properties for which the instances will be created.
- Change types of the instantiated properties.
- Change names of the instantiated properties.
- Apply custom stereotypes to the instantiated properties.
- Assign default values for the instantiated properties.

For properties having a multiplicity of more than 1, you can create as many instances of the same type as you need, since parallel parts can be added while creating instances. Previously, this feature had been supported by the **SysML plugin only**.

The **Automatic Instantiation wizard** analyzes the structure of the selected element and collects all available information about that element from the model (attributes, properties, and so on). All this information is presented in the first step of the wizard.

The **Automatic Instantiation wizard** evaluates collected information and provides a suggestion of all possible instances to be created.

If you are satisfied with the default values provided in the **Automatic Instantiation wizard,** you can finish the wizard in the first step without making any changes. The instances will be created with the default values and in your working package. But if you want to change default values, create several different configurations, see the **Working with Automatic Instantiation Wizard** and the **Case study:** sections on how to do that.

The **Automatic Instantiation Wizard** consists of three steps:

- Step #1. Selecting parts to be instantiated
- Step #2. Selecting a package
- Step #3. Creating a diagram (optional)

To open the **Automatic Instantiation** wizard

1. Select the elements for which you want to create instances.
2. From the shortcut menu, select **Tools** > **Create Instance**.
   The **Automatic Instantiation** wizard opens.

Related pages

- Instance Specification
- Constraint Link
- Value Specification
- Working with Automatic Instantiation Wizard
- Automatic Instantiation Wizard Case Study
- Automatic Instantiation wizard in SysML Plugin