

# How to approve requirements

One of the ways you can benefit from editing your model in a Cameo Collaborator for Teamwork Cloud document is reviewing and approving Requirements. The following workflow will give you instructions how to do it:

1. In a modeling tool, create a Profile with a custom Requirement subtype. You will need custom Requirements to be able to change their Status (e.g., to Approved).
2. Use the Profile with the custom Requirement subtype in the model you intend to publish for review.
3. In the model, create and define Requirements of the custom Requirement subtype you have created.



## Converting default requirements

If you already have default requirements defined in your model, you can convert them to the custom Requirement subtype by [refactoring](#).

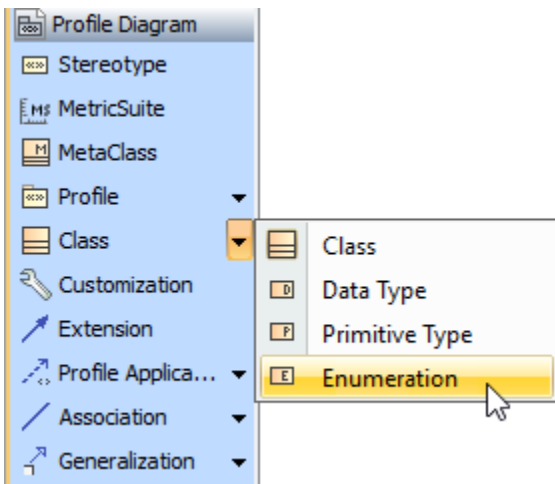
4. Publish the model (or the part of the model containing Requirements) to Cameo Collaborator for review and [share the document link](#) with reviewers.
5. Review and approve model requirements.

## Creating a custom Requirement subtype

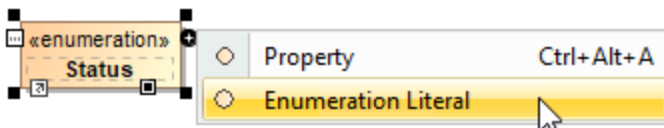
If you want to change Requirement status, you need to create a custom Requirement stereotype with the Status tag, as described below.

To create a custom Requirement subtype

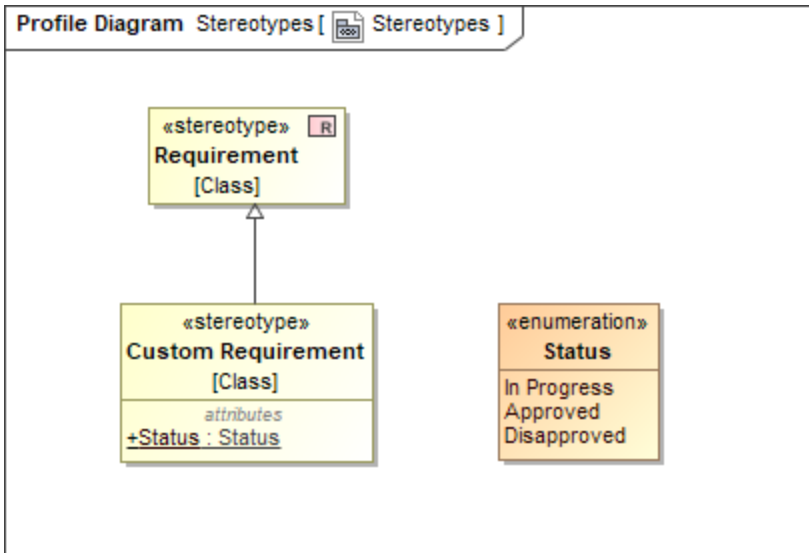
1. Create a new SysML project.
2. In the project, Create a Profile element and name it *Custom Stereotypes*.
3. In the *Custom Stereotypes* Profile, create a Profile Diagram.
4. In the Profile Diagram, create a Stereotype and name it *Custom Requirement*.
5. In the Model Browser, find the Requirement [Class] element (it should be located in the SysML Profile) and drag it to the Profile Diagram.
6. Create a Generalization relationship from the *Custom Requirement* to the *Requirement [Class]*.
7. In the same Profile Diagram, create an Enumeration instance, as displayed below, and name it *Status*.



8. Create three Enumeration Literals for the *Status* Enumeration instance, as displayed below, and name them *In Progress*, *Approved*, and *Disapproved*.



9. Drag the *Status* Enumeration instance shape to the *Custom Requirement* Stereotype shape. Your Profile Diagram should look like the one shown below.



Now that you have created a profile with a custom Requirement subtype, you can use it in the model where you want to create custom Requirements.

## Approving Requirements

To approve Requirements

1. Open the Cameo Collaborator for Teamwork Cloud document with the Requirements you want to review. See the example of a Requirements table below.

The screenshot shows a web interface for "Hybrid Vehicle" with a "System Requirements Table". The table has columns for "#", "Name", "Text", and "status". It lists five requirements with their current status.

#	Name	Text	status
1	Vehicle Mass	The total vehicle mass shall not exceed 1500 Kg.	In Progress
2	Regenerative Braking	When braking, the electric motor shall switch to generator mode. The wheels shall transfer kinetic energy via the drivetrain to the generator. Generator resistance produced from the electricity created shall slow the vehicle.	In Progress
3	Stopping Distance	The vehicle shall completely stop from 100 km per hour in less than 30 meters.	Approved
4	Friction Brake Heating	Friction braking at 100 km per hour shall not generate more than 55 kW of heat at each wheel.	In Progress
5	ACC Brake	ACC shall bring the vehicle to a complete stop if the barrier appears.	Disapproved

2. Review the requirements and do one or several of the following actions:
  - **Change the Status value of the Requirements** that do not need any changes to **Approved**.



### Empty values cannot be edited

You can change only existing Status values. Cameo Collaborator does not allow to enter property values that have not been specified. So make sure that certain Status values (e.g., In Progress) are defined before [publishing a model for editing](#).

- **Create textual or graphical comments** for items that need to be discussed.
3. Inform the author that you have finished reviewing the document.

