

QoS profile assignments

There are three elements that QoS Profiles can be assigned to in the model:

- Endpoints typed by Topic.
- DomainParticipants.
- Topics.

To create an empty Endpoint QoS Assignment Table

1. In the [Containment tree](#), right-click a predefined *Endpoint QoS Package*.
2. From the shortcut menu, select **Create Diagram** and from the opened dialog, select Endpoint QoS Assignment Table.
3. The unnamed table is created. Type its name and press enter.

To fill in the Endpoint QoS Assignment Table

1. From the table toolbar, click the **Add New** button. The new row appears and Endpoint QoS Assignment element is created in the model.
2. In the table, specify the following:
 - Double-click the **Name** cell and type Endpoint QoS Assignment name.
 - Double-click the **QoS Profile** cell, select ... and in the **Select Elements** dialog choose QoS Profile.
 - Double-click the **Endpoint** cell, select ... and in the **Select Port** dialog choose already created ports or use the **Creation Mode** to create new port.
 - Double-click the **Domain Participant Instance** cell, select ... and in the **Select Property** dialog choose already created Part Properties or use the **Creation Mode** to create new Part Property.

Assigning QoS on subscribers/publishers is not possible since they are derived from the model and not explicitly marked.

- To assign QoS Profiles on Topics create a Topic QoS Assignment Table.

Criteria			
Element Type: Topic QoS Assignment		Scope (optional):	Drag elements from the Model Browser
#	Name	QoS Profile	Topic
1	Minimal	Generic.MinimalMemoryFootprint	TemperatureControlTopic TemperatureTopic

Name of the assignment

QoS profile to assign

Topics to have the QoS

- To assign QoS Profiles on Domain Participants create a Participant QoS Assignment Table.

Criteria			
Element Type: Participant QoS Assignment		Scope (optional):	Drag elements from the Model Browser
#	Name	QoS Profile	Domain Participant
1	BestEffort	Generic.BestEffort	HomeController

Name of the assignment

QoS profile to assign

Domain participant Block

Instances with type of Domain Participants

- To assign QoS Profiles on Endpoints create a Endpoint QoS Assignment Table.

Criteria			
Element Type: Endpoint QoS Assignment		Scope (optional):	Drag elements from the Model Browser
#	Name	QoS Profile	Endpoint
1	Reliable	Generic.StrictReliable.LargeData.MediumFlow	readTemperature : ~Home Control::Topics::TemperatureTopic

Name of the assignment

QoS profile to assign

DataPort on the instance's classifier

Participant instance with DataPort