

Creating the domain

The Domain can be created by using the DDS Domain Table. As shown in the following table, the Smart Home DDS Domain is created with specified its id, topics, participants and participant instances. [How to create DDS Domain Table>>](#)

Criteria

Element Type: ... Scope (optional): ... Filter:

#	Name	△ Domain_id	topics	participants	participant instances
1	Smart Home	1	HumidityControlTopic HumidityTopic ShutterTopic SunLightTopic TemperatureControlTopic TemperatureTopic <td> HomeController HumidityController HumiditySensor LightSensor Shutter TemperatureController TemperatureSensor <td> homeController : HomeController controller : HumidityController sensor : HumiditySensor lightSensor : LightSensor shutters : Shutter [10] controller : TemperatureController sensor : TemperatureSensor </td></td>	HomeController HumidityController HumiditySensor LightSensor Shutter TemperatureController TemperatureSensor <td> homeController : HomeController controller : HumidityController sensor : HumiditySensor lightSensor : LightSensor shutters : Shutter [10] controller : TemperatureController sensor : TemperatureSensor </td>	homeController : HomeController controller : HumidityController sensor : HumiditySensor lightSensor : LightSensor shutters : Shutter [10] controller : TemperatureController sensor : TemperatureSensor

HomeController

HumidityController

HumiditySensor

LightSensor

Shutter

TemperatureController

TemperatureSensor

homeController : HomeController

controller : HumidityController

sensor : HumiditySensor

lightSensor : LightSensor

shutters : Shutter [10]

controller : TemperatureController

sensor : TemperatureSensor

The example of DDS Domain Table.

The Participant Instances derived column displays all the instances that will be in the the DDS XML. Now we are ready to export the model if we desire, but first we need to assign quality of service requirements on the DDS elements.