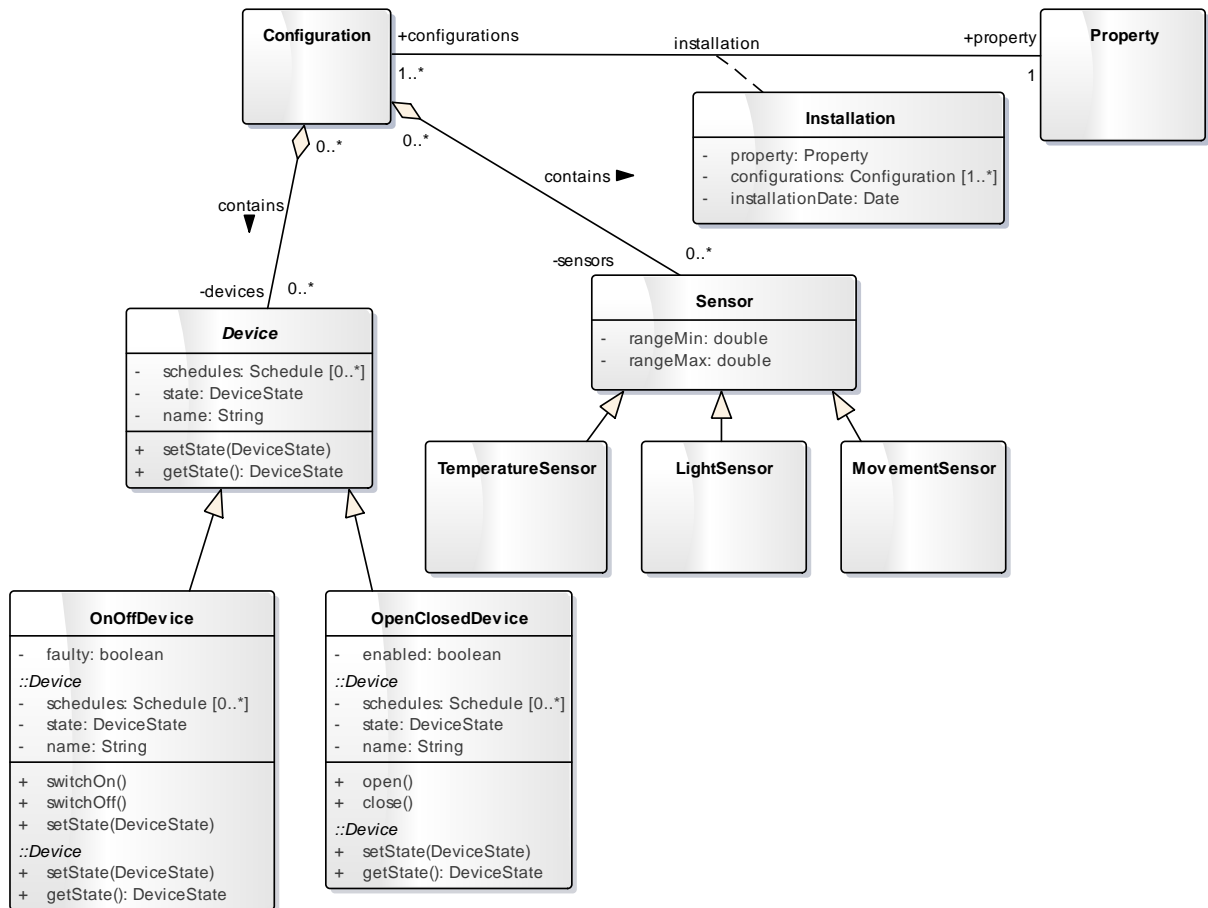


Learning UML

O'Reilly

Exercises – Interfaces and Enumerations

If you have followed along, your *home network* diagram should look similar to the one in the movie. If not, first create a diagram that looks like this.



Now do the following:

Make some space in the diagram by moving *Sensor* and its subclasses down to the right.

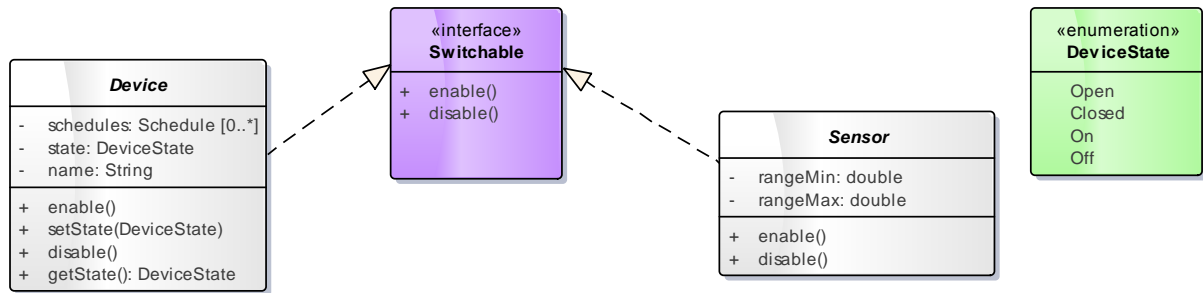
Add a new interface called *Switchable*. Add the operations *enable()* and *disable()*, both with no parameters and no return type.

Add realization relationships between *Sensor* and *Switchable* and between *Device* and *Switchable*. When you do so, select the option to add the operations to the two classes.

Set the class *Sensor* to be an abstract class.

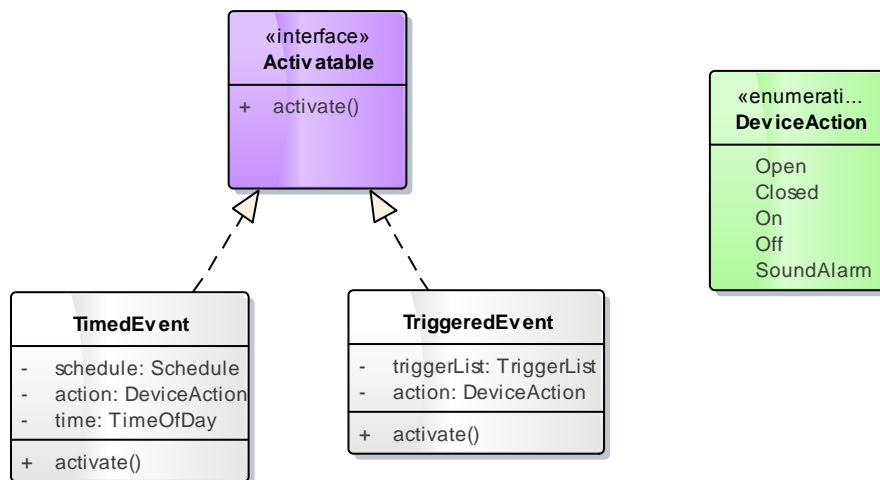
Add the enumeration *DeviceState* to the diagram with the values *On*, *Off*, *Open* and *Closed*.

Your *home network* diagram should now have these elements in it:



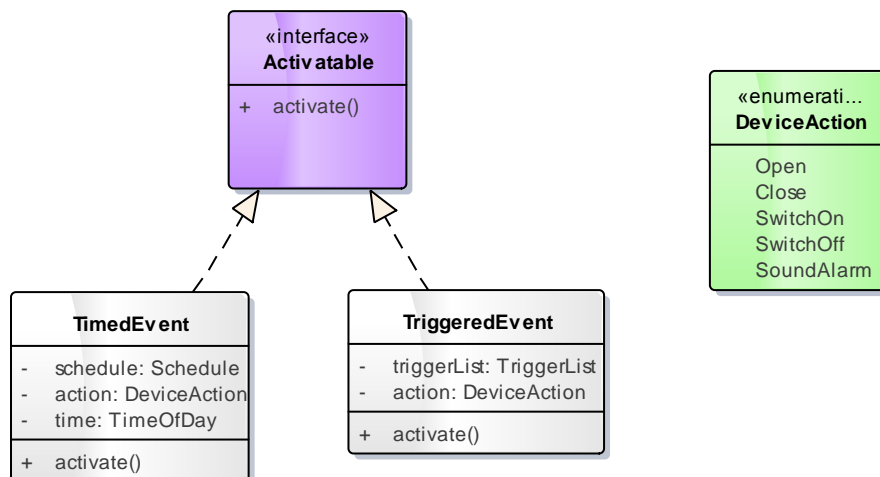
Go to the *events* diagram.

Your diagram should look something like this.

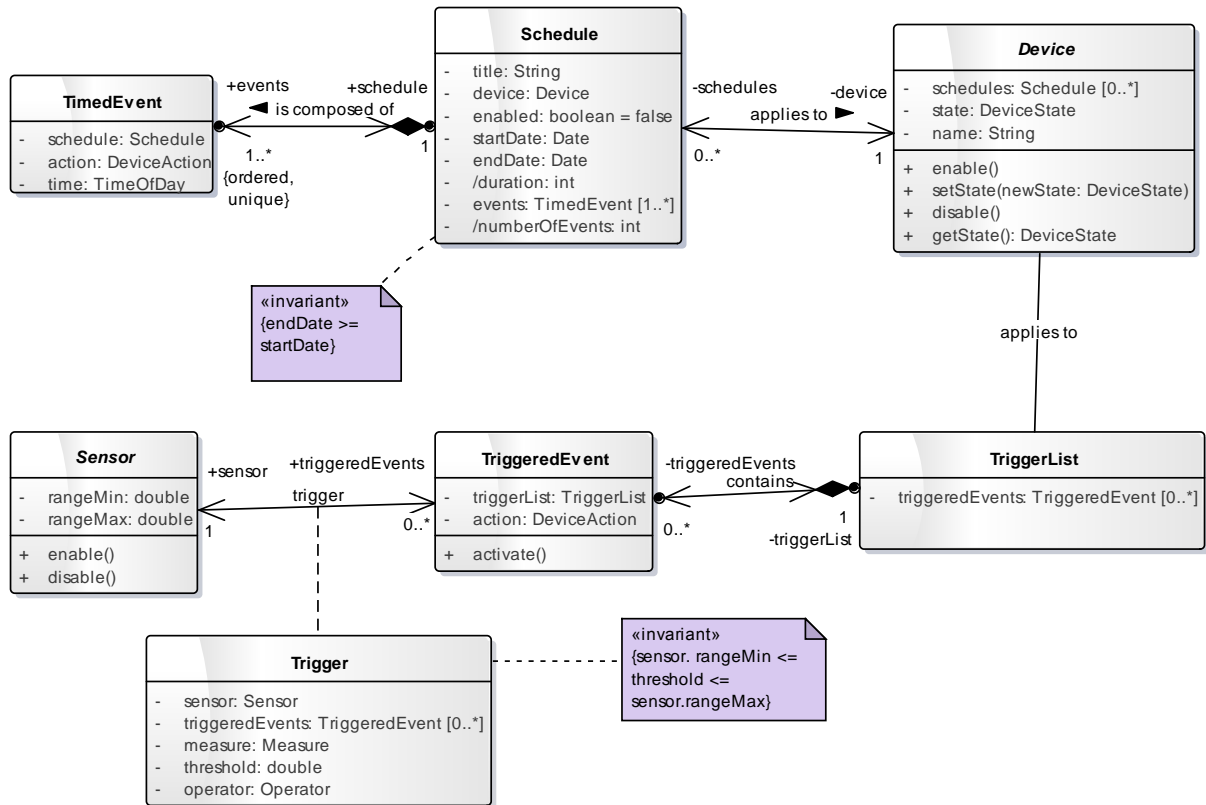


Edit the values *Closed*, *On* and *Off* to be *Close*, *SwitchOn* and *SwitchOff*. This way these are all actions and distinct from the states in *DeviceState*.

Your diagram should now look like this.



Go to the *domain* diagram, which should look like this.



Add the enumeration *Operator* with the values =, >, <, >=, <=. Your enumeration should look like this.

