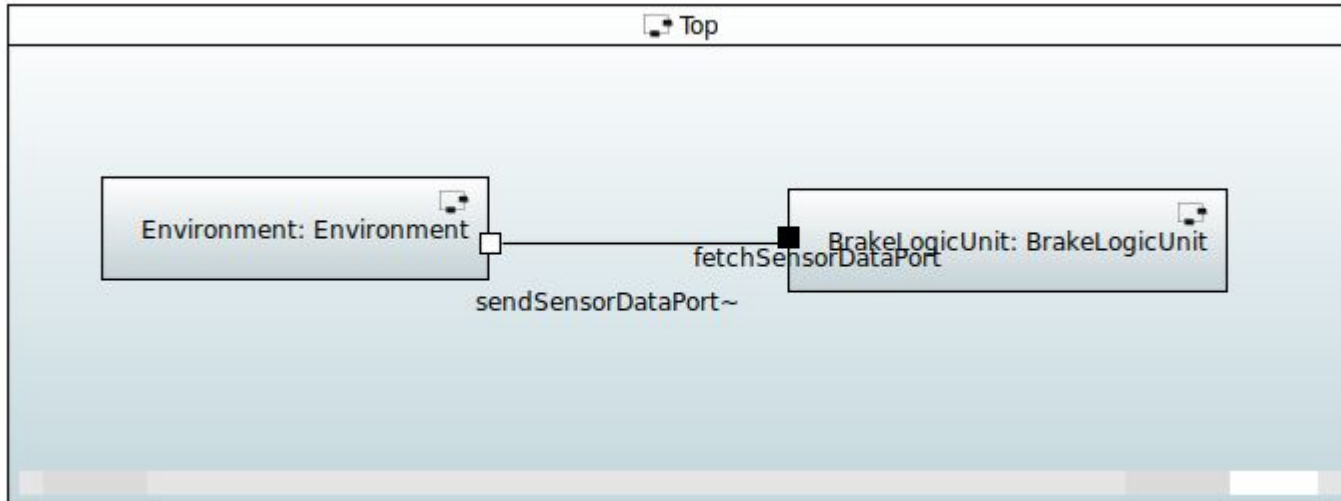


# How to convert state machines from Papyrus RT to Papyrus Moka

With Papyrus RT XX  
And Moka: 4.0.0 (Eclipse 4.12)

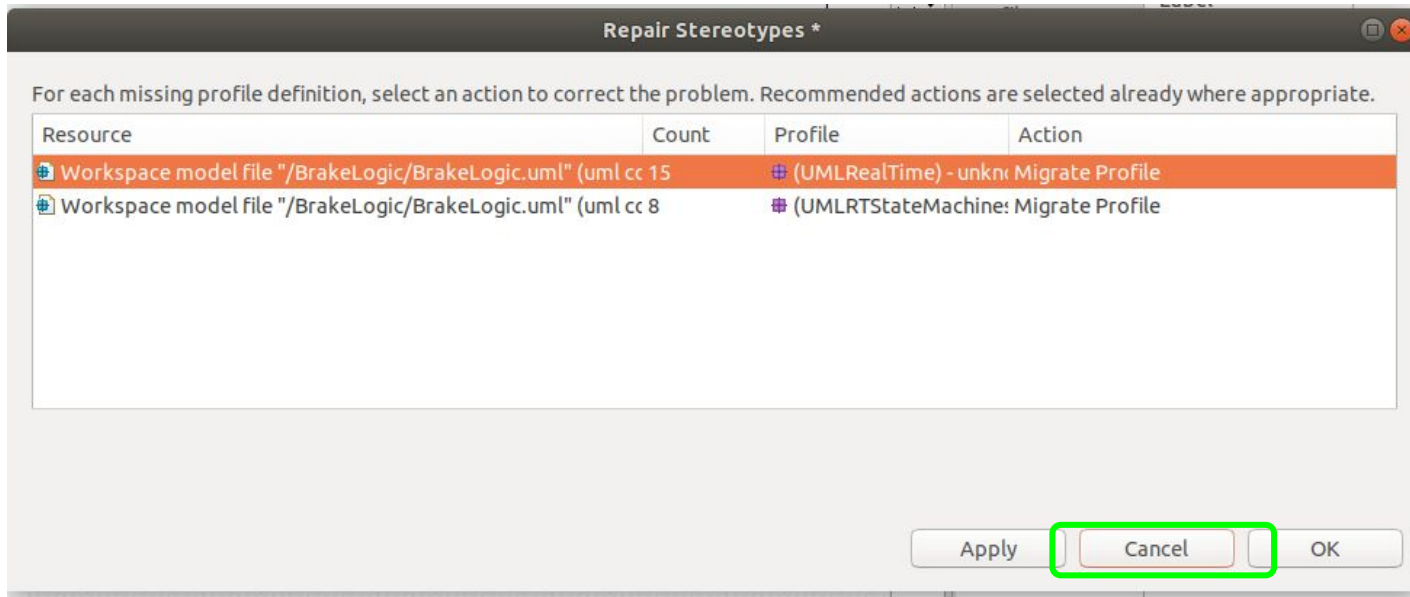
# 1. Get the model

- Clone this GitHub repository:  
<https://github.com/sqe-simulation-modelling/emergency-brake>
- You'll find the Papyrus RT model in the 'BrakeLogic' folder
- Or prepare your own Papyrus RT model and abstract the following steps :-)

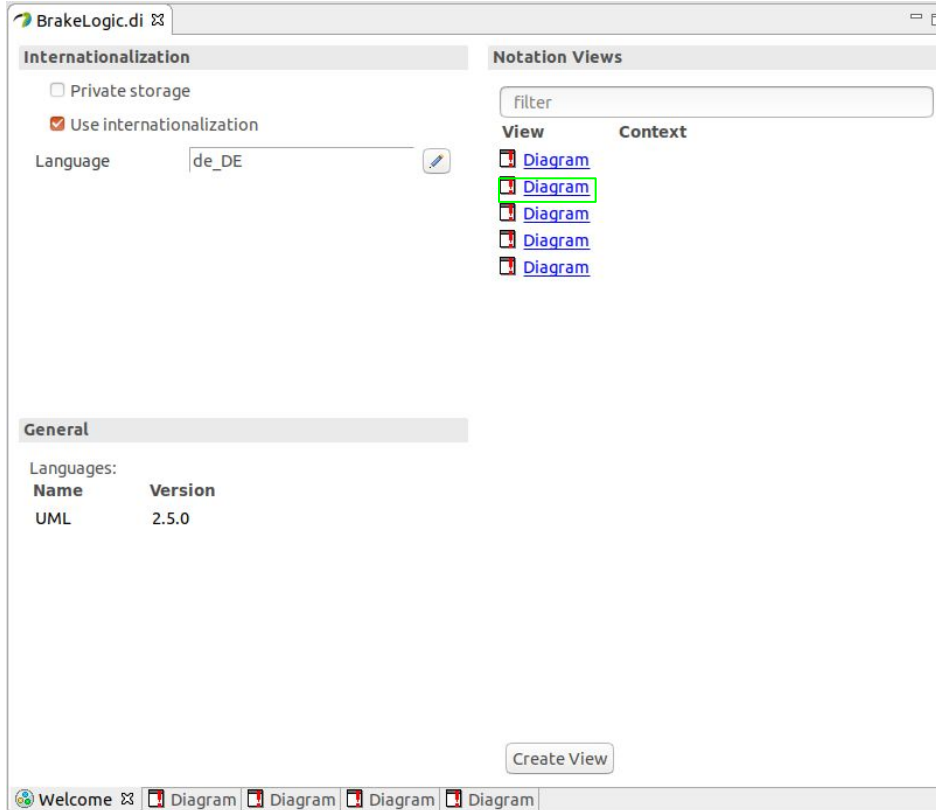


## 2. Open it with Papyrus Moka

- Import the project folder 'BrakeLogic' and cancel "Repair Stereotypes"



### 3. Open diagram

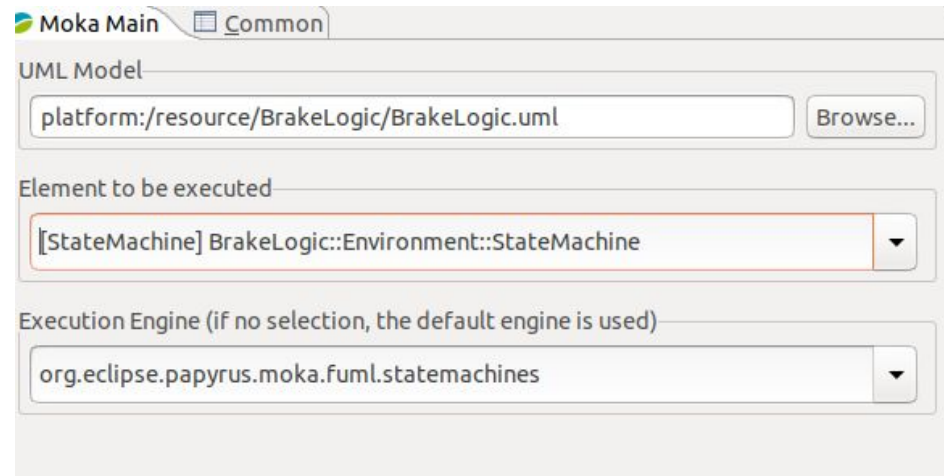


They sadly have all the same name.  
Notice that you can switch them with the tabs below

- Open the second diagram from the list
- You should see the state `CollectingSensorData`

## 4. Create a Moka launch configuration

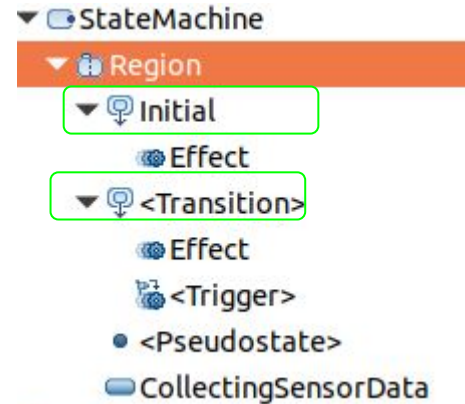
- Click Run -> Run configurations..
- Set..
  - UML Model to: BrakeLogic.uml
  - Element:
  - Execution engine: ..fuml.statemachines
- Apply and close




## 5. Remove RT effects & triggers

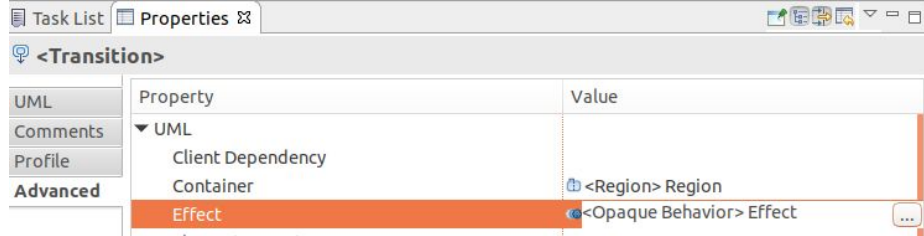
Annotated RT effects cause NullPointerExceptions and trigger cause silence quit. Thus delete them:

- Within ModelExplorer:
  - BrakeLogic
    - Environment
      - Statemachine
        - Region
- There are transitions with effects and triggers
- For both of them do the following steps: ...

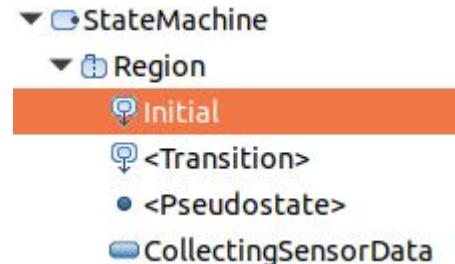


## 5.1) Remove RT effects & triggers

- Click on the transition and switch to Advanced within the Properties View.
- Toggle on “Show Advanced Properties”(  ) at the top right corner
- Now delete all effects and trigger entries below (choose <Undefined> for effects)



- The model explorer now looks like this:



## 6. Set Statemachine active

- Click on the state machine and set isActive to true

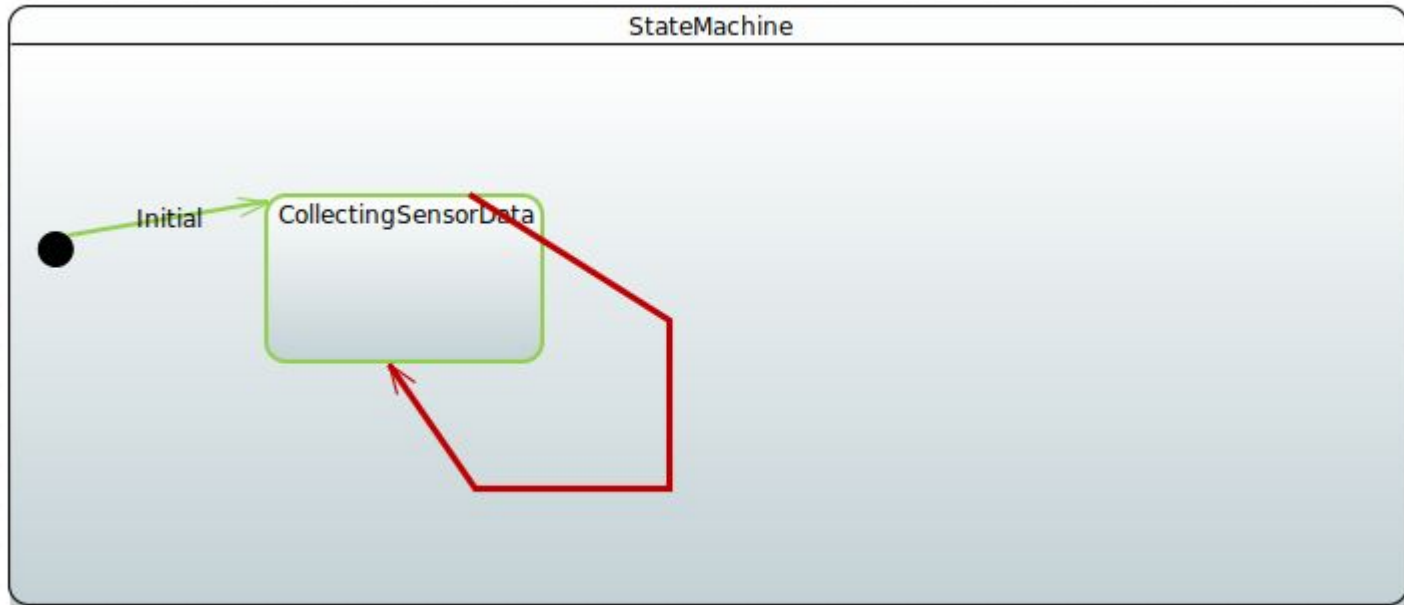
**StateMachine**

<b>UML</b>	Name	StateMachine	
Comments	Label		
Profile	Is abstract	<input type="radio"/> true	<input checked="" type="radio"/> false
General	Is active	<input checked="" type="radio"/> true	<input type="radio"/> false
Style	Is reentrant	<input type="radio"/> true	<input checked="" type="radio"/> false



## 7. Run

- Click Run



# Tips

- It might be necessary to save the model changes before Moka can execute the changes
- Sometimes a restart of Eclipse is necessary to get it started
  - Be sure that all the changes are set correct after the restart