

# CPS-D1: Simple Instruction Manual – The Room



## Simple Instruction Manual

- Our running system is The Room with a few gadgets
- This simple manual tells you how to go about making correct use of The Room
  - In the first place, this shows you how to make Happy Day Scenarios





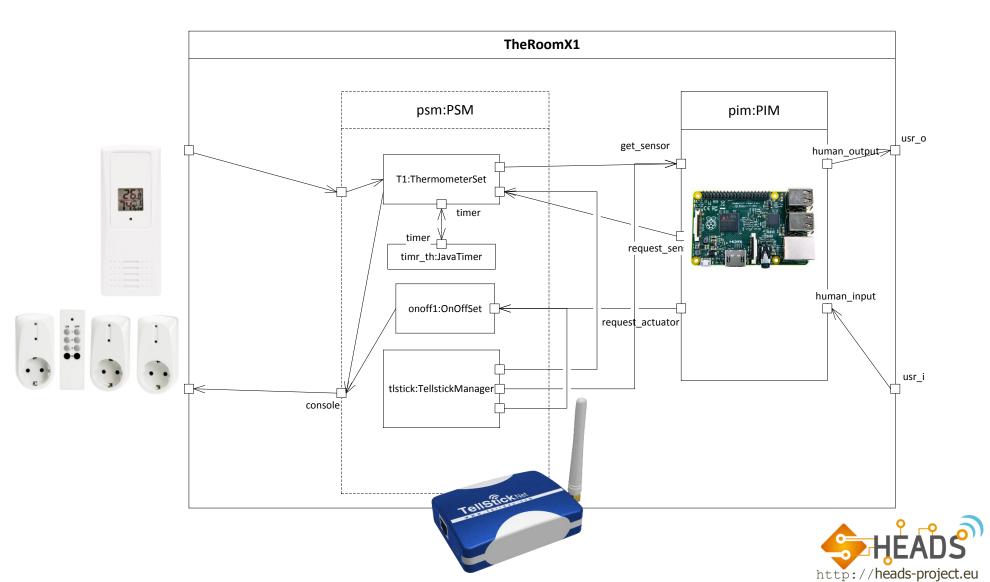


#### The Room X1

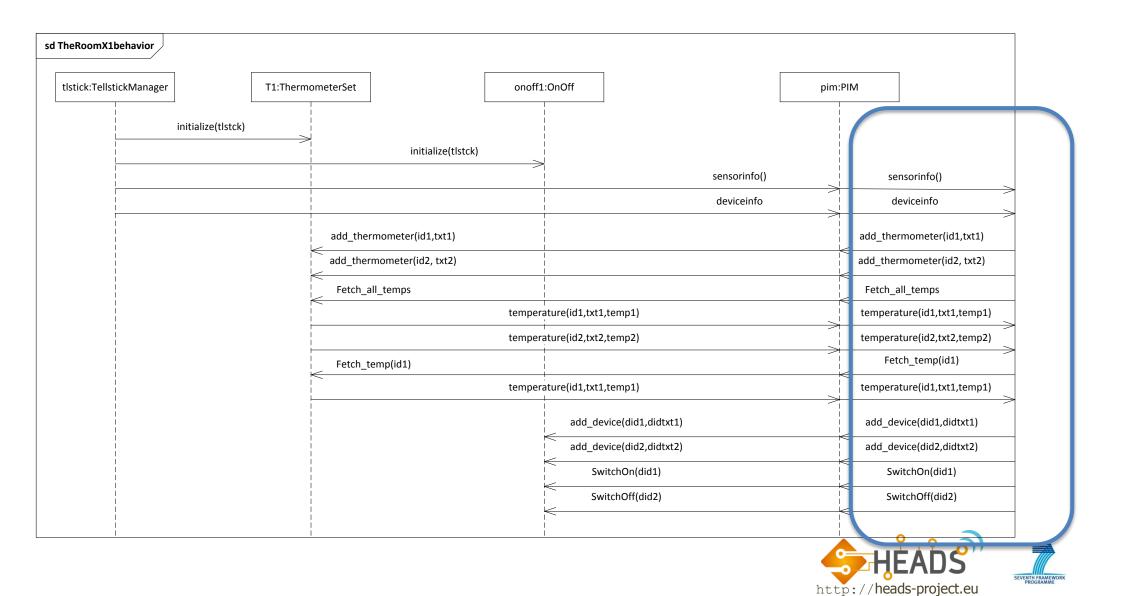




# In one picture



#### The Room X1 Behavior



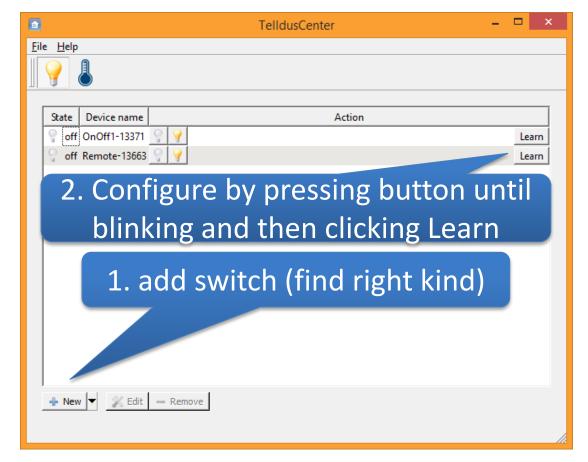
# Overview of the user interface for the real Room system

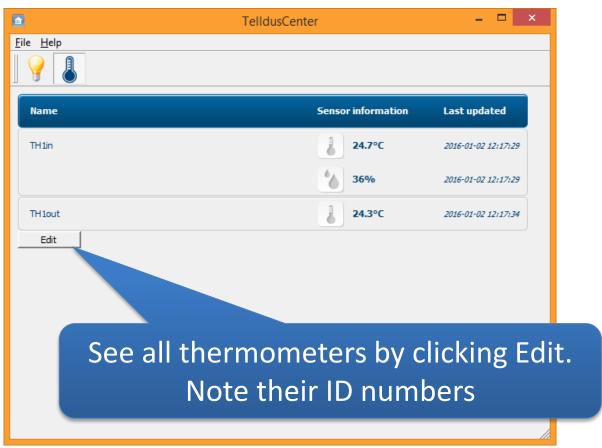
- Apply Telldus software to configure gadgets
- Execute The Room
  - The Room will print out the configured gadgets
  - You should look at the lists and
    - Add thermometers
    - Add devices (i.e. switches)
  - Ask for temperature observations (fetch\_temp, fetch\_all\_temp)
  - Turn separate switches on or off





#### The TellStick Duo software



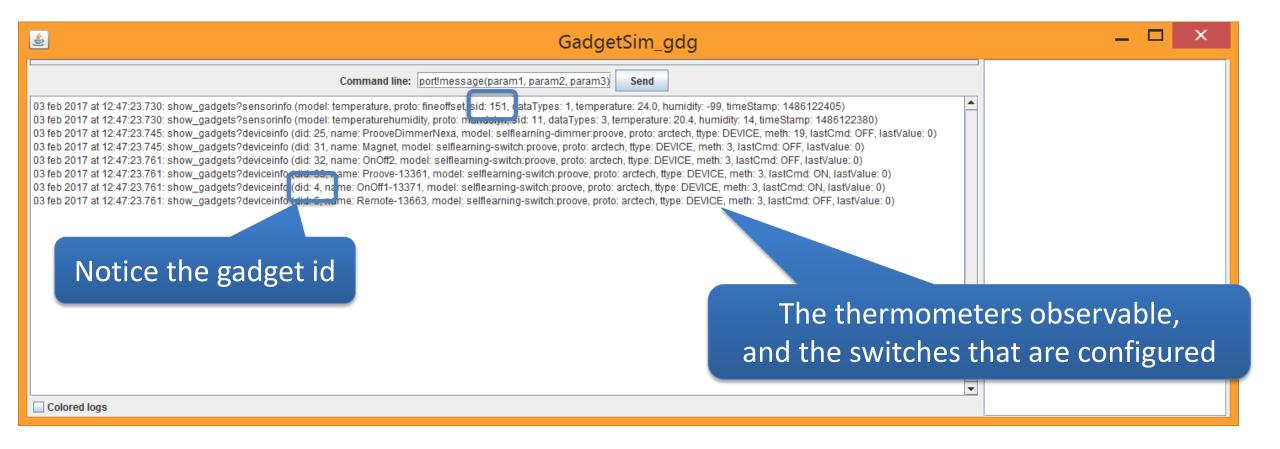


Check that Telldus Service is running in Task Manager (on Windows)



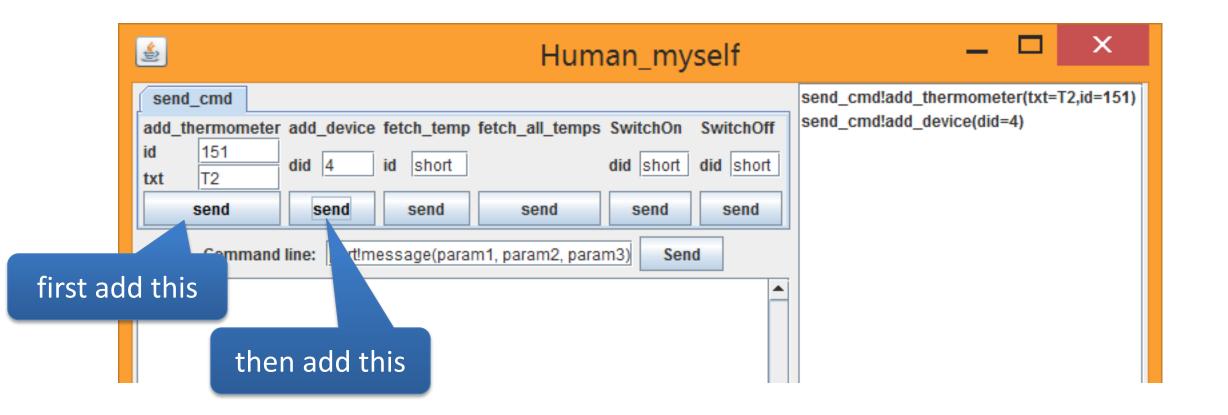


# Start executing The Room X1: Gadgets listed





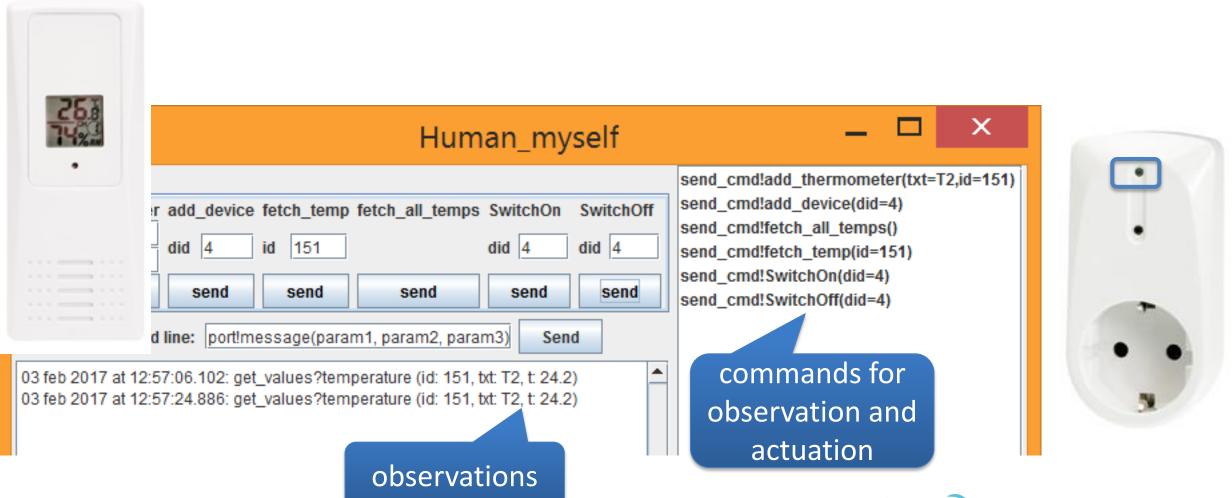
### We add one thermometer (151) and one switch (4)







#### Then we can observe and actuate







#### The Room X1 Simulated

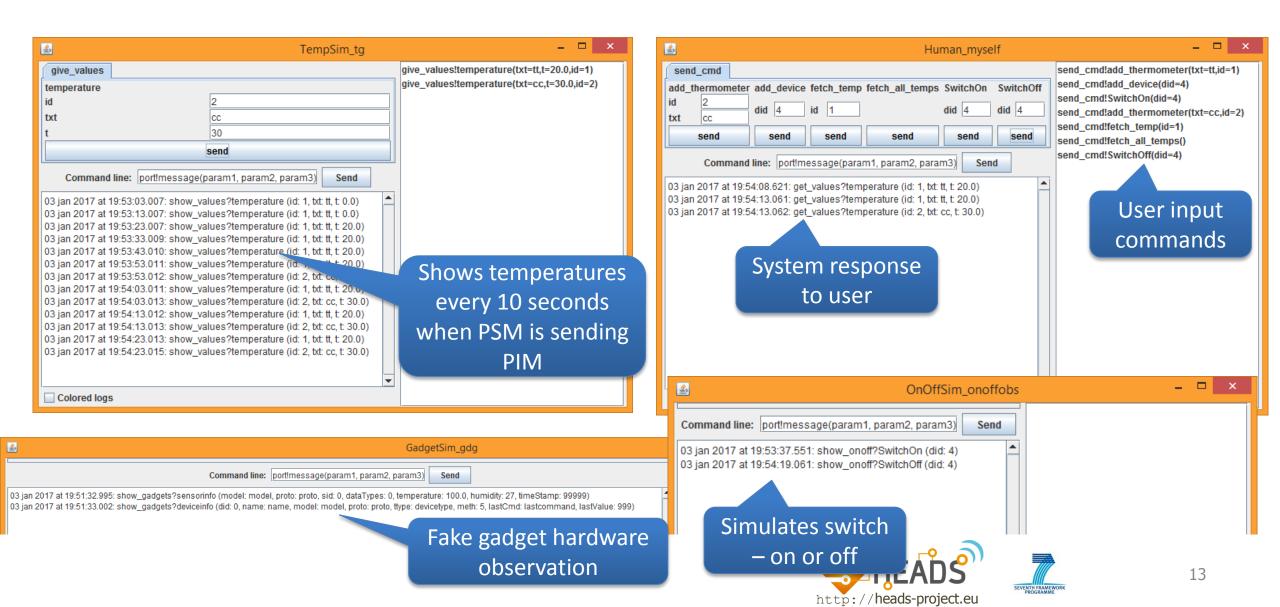


## Executing The Room X1 Simulated

- Very much the same as the real X1, but you also need to provide temperatures for the thermometers
- You can provide temperatures at any time.
  - The new values take effect within one polling cycle
  - Polling cycle duration can be set in a later version of the model



#### The Room X1 – A simulated execution





#### The Room X2 Thermostat Simulated



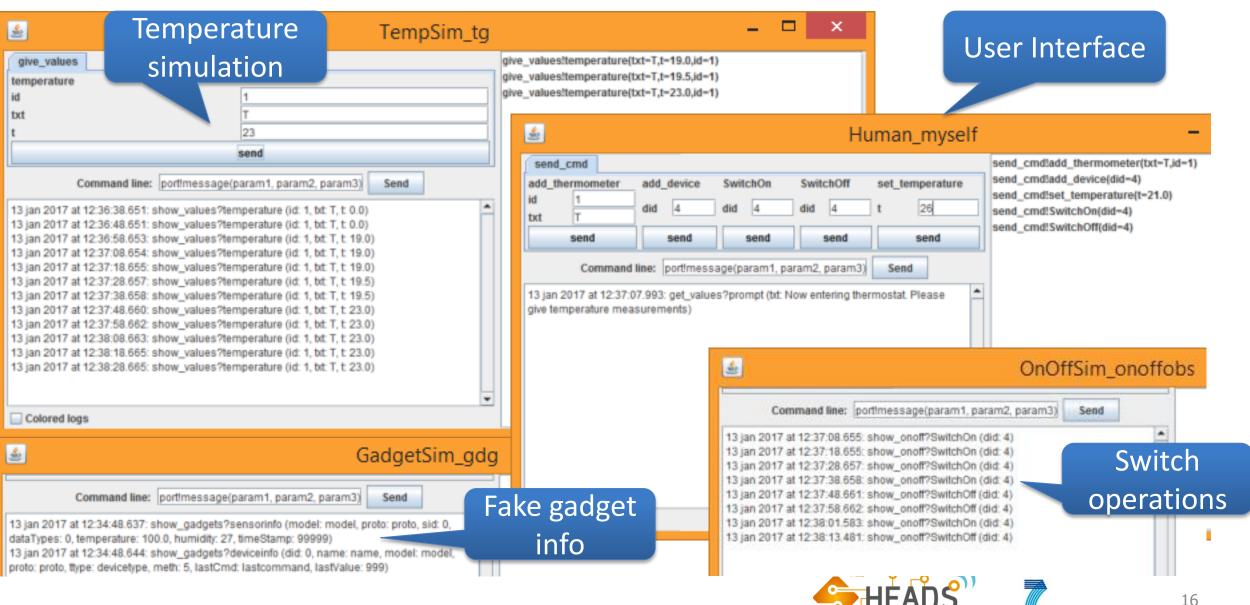
## Executing The Room X2 Thermostat Simulated

- This is very similar to executing X1 simulated
- You add one thermometer and one gadget (in that order)
- Then you set the comfort temperature
- At any time you may input temperature for the simulation of the thermometer
- You may also set the switch to always on or always off
  - and then setting the comfort temperature will again turn the system into a thermostat again





#### Execution X2 Thermostat



http://heads-project.eu

#### Consortium









