

Roles and permissions

- parent, child, baby, cleaning lady, visitor

Appliances classes and constraints

- switchable / un-switchable devices (A/C, fridge, ...)
- environmental constraints for room and appliances
 - private bathroom reserved by selected user(s) at given times
 - TV accessible to children after 8pm only with parental control

Lighting and comfort policies / preferences

- user preferences conjugated with house policies
- external factors (light, temp) taken into account
- conflict management policies

The overall system structure

- 13 tuple centres
- 4 agent types with dozens of agents
- 1 DBMS to store user info and appliance info

The simulated scenario

- 11 rooms
- 13 appliances of different types spread in the house

