## ALICE PC Cooling System Sensor

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# Objective

- Sense whether cooling system is functional
  - Door closed
  - Fans operational
- Provide clear UI to allow user to monitor situation
- Secondary method to sense cooling
  - Temperature sensors already in place
  - Allow action before temperature rises too much

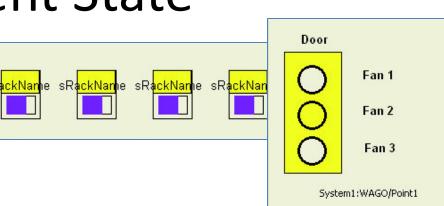


## Extension to larger scale

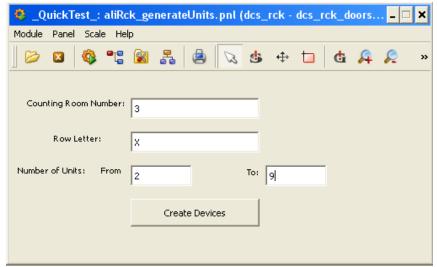
- CTRL scripting
  - Specific to PVSS
  - Based on C
  - Allows/simplifies mass parameterization
- JCOP Framework
  - Developed by 4 major experiments
  - Support components common to many sub-detectors
  - Limited documentation
- WAGO PLCs not explicitly supported by fw

### **Current State**

- Learning exercise
  - mass parameterization
  - panel graphics



- GUI creates DPs based on rack names
  - Consistent with JCOP naming conventions
  - Sets up hardware addresses for each DP



#### Next steps

- Set up FSM
  - Abstraction for dealing with states of components
- Construct system
  - Wiring in ALICE CR3
- Pressure sensing in different room (?)