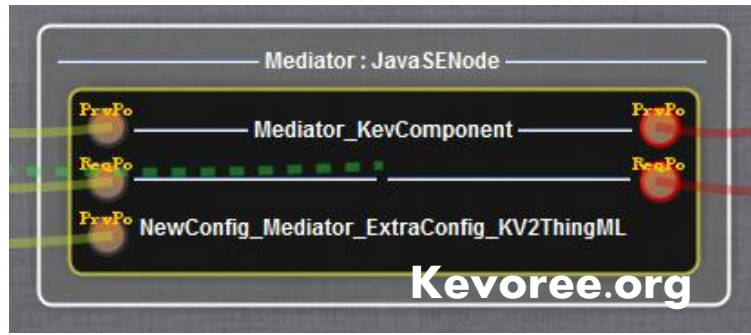# A semi-automatic, behavioral mediation approach based on models@runtime

Runze HAO, Brice MORIN, Arne J. BERRE

www.remics.eu

Kevoree.org

Monitor

```
import "API1.thingml"
import "API2.thingml"

thing Mediator includes API1, API2{

    property password: String // Use to store the password

    provided port Client {
        receives log
        sends ack
    }

    required port Server {
        sends login, password
        receives access
    }

    statechart Authentication init Ready {

        state Ready {
            on entry print "Mediator: Ready, Waiting for credential ..."

            transition -> CheckPassword
                event e: Client?log
                action do
                    password = e.password
                    Server!login(e.login)
                end
        }
```

ThingML.org

log

ac

SINTEF

Conclusion & Perspective

- Service Interoperability
  - ➔ difficult (even impossible?) to fully automate

- Our approach
  - ➔ a set of light weight tools to help and guide designers
  - ➔ tools and resulting mediators deployed on M@RT platform