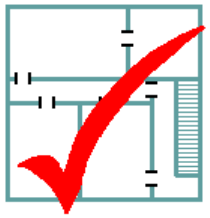
Poster 3 April/May 2005



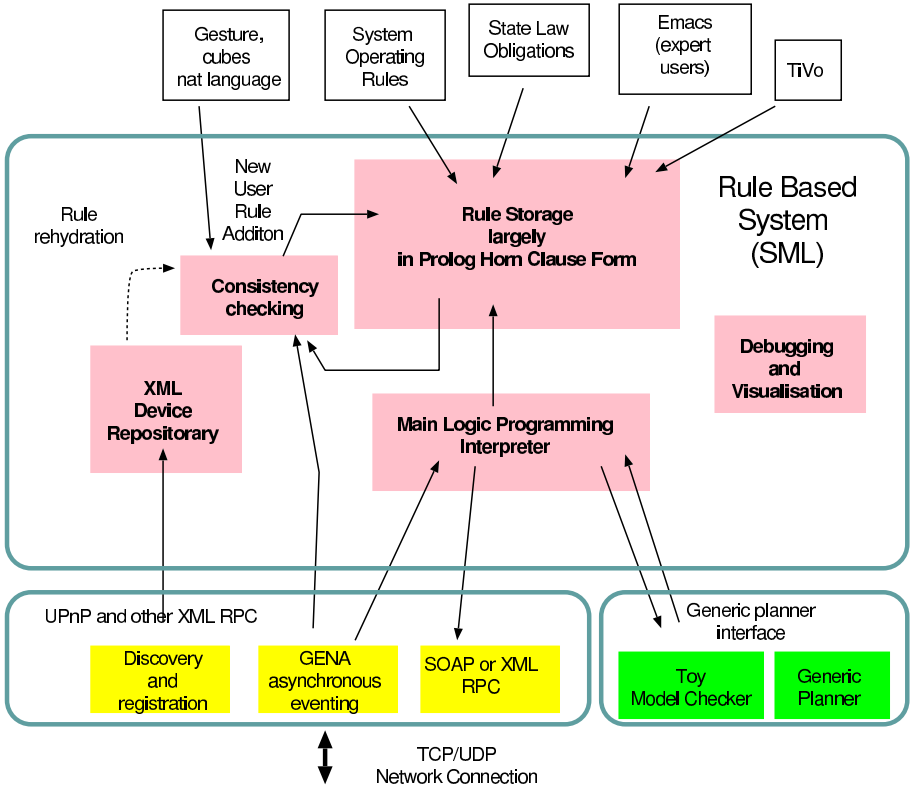
Pebbles in Autohan and Oxygen

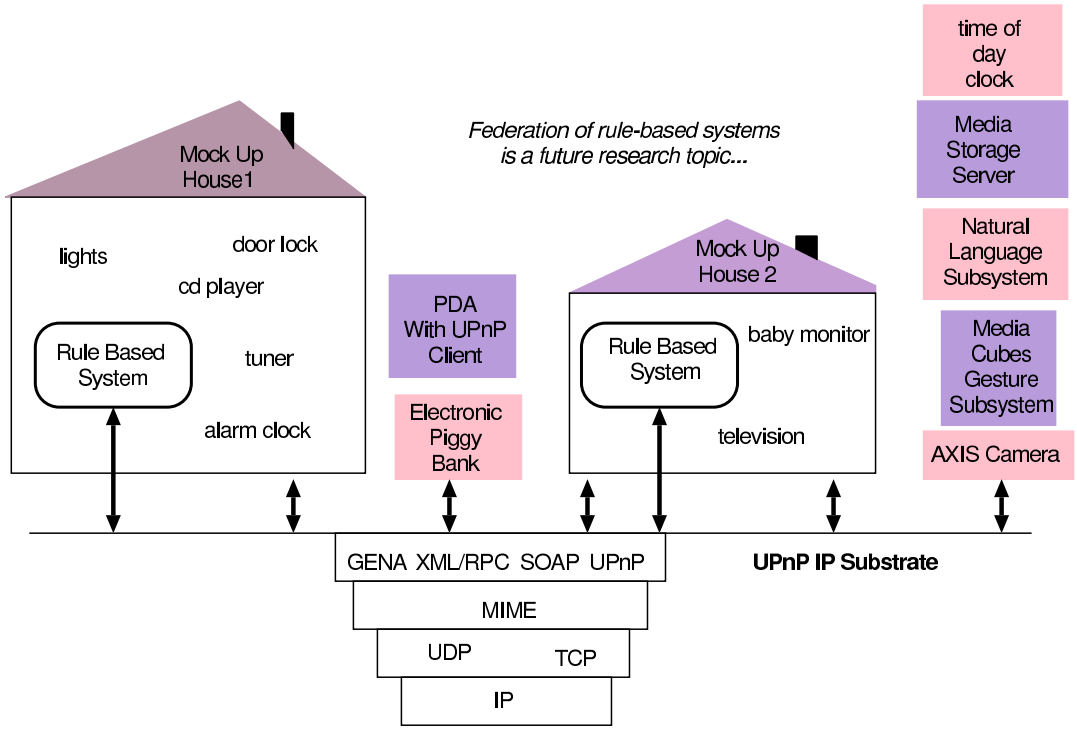
Funded partly by the CMI Cambridge MIT Institute
3 Year Project, Started October 2003.

The Cambridge-MIT Institute

Rule-Based System: Validation and Execution

- Logic programming for eternal real-time systems
- Devices describe and expose all internal APIs over the network
- All canned, downloaded and user-created apps run inside the RBS
- Rules fire as events occur outside the controller:
  e.g. "When the light switch is off the light is off"
- New rules are loadable from a variety of user interface devices
- Automated reasoning ensures system consistency at all times





Example Rules in the Home Context

- "Switch off all the lights at midnight"
- "Record the Simpsons this evening and charge Sharon's account"
- "There shall always be a way to open the front door"
- "No other rule shall mute the fire alarm sounders"

Architecture can be applied to other similar environments, such as a train, car or oil rig.

Pebbles in Oxygen and Autohan Project
University of Cambridge
Computer Laboratory and