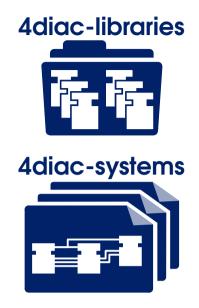


# Project Introduction / Update

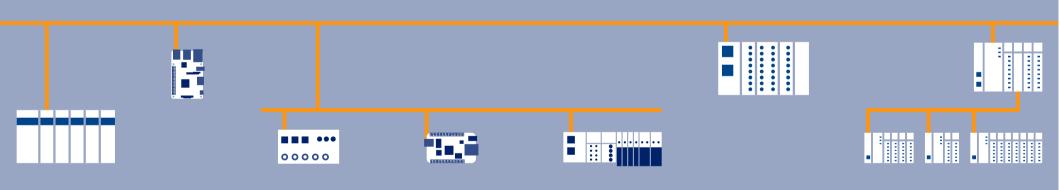
Eclipse Unconference IoT Working Group Alois Zoitl, fortiss GmbH

## **Idiac** Environment













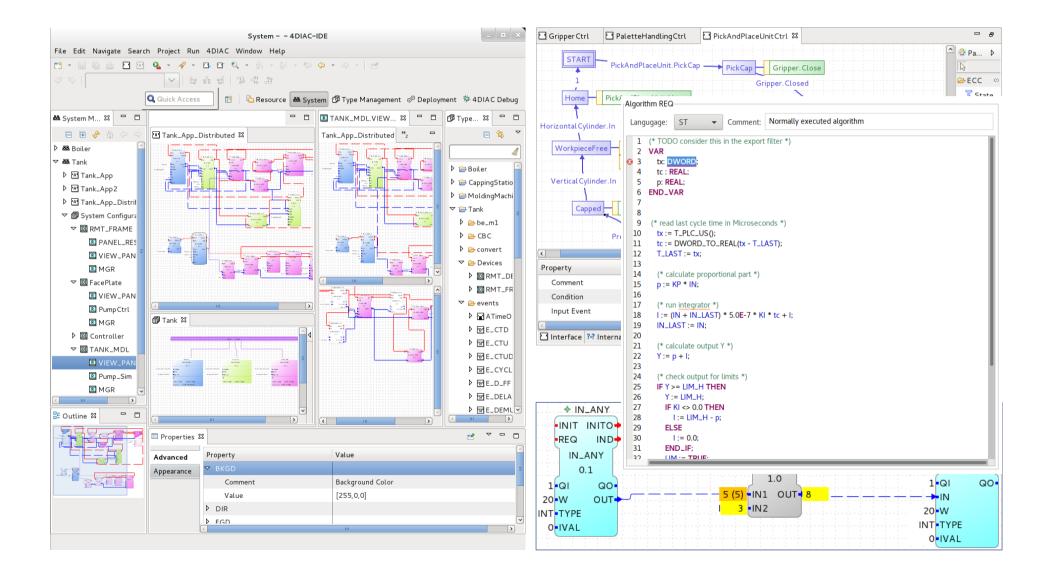








## Overview 4diac-ide



## Overview 4diac-rte (FORTE)

### **Operating Systems**

- Windows
- Posix: Cygwin, Linux (i386, PPC, ARM)
- NET+OS® 7
- eCos
- Upcoming: freeRTOS, vxWorks, rcX, InTime

#### **Devices and Dev-Boards**

- Lego Mindstorms EV3
- Digi Connect ME® (ARM7)
- CBC v2 robot controller
- Raspberry Pi
- BeagleBone
- Bachmann electronic M1 PLC
- Wago PFC 200

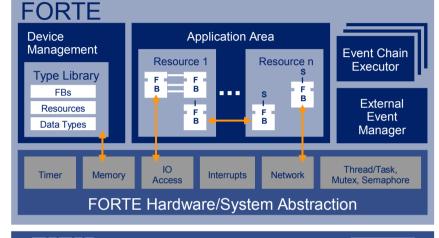








Source: LEGO





Device Specific Hardware & Operating System



#### **Communication Support**

- EclipseSCADA SFP
- Ethernet (TCP/UDP)
- Ethernet PowerLink
- Modbus TCP Client
- MQTT
- OPC DA Client
- RS232
- Upcoming: OPC UA

## **Status**

- FORTE code transferred to Eclipse Foundation
  - 10 years of development history (cvs, svn, hg)
  - 23 contributors
- 1.8 release
  - Last non Eclipse hosted release
  - 4diac-ide: mainly usability improvements
  - FORTE: Performance improvements and new hardware support
  - Long term maintenance version
    - → 1.9 will introduce API break

### **Plans**

- Transfer 4diac-ide code to Eclipse
  - >350 kLoCs
  - Major Model and code clean-up
  - Identify contributors
- FORTE
  - New operating systems: freeRTOS, vxWorks, InTime, rcX
  - Dynamic loadable components utilizing an embedded LUA engine

#### → 1.9 first Eclipse hosted release

- Long Term
  - Migrate to
    - E4
    - GEF 4
  - Utilize Eclipse Layout Kernel

- Collaboration
  - EclipseNeoScada
  - hawkBit
  - MILO