

TANGO@FRMII

Status Report

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What is the MLZ ?

- Heinz ***M***aier-***L***eibnitz-***Z***entrum
- Cooperation contract 2010
- Partners
 - FRM-II
 - HGF Centers Jülich, Geesthacht, Berlin
 - Some MPG Institutes
 - Some universities
- Inauguration February, 21th 2013

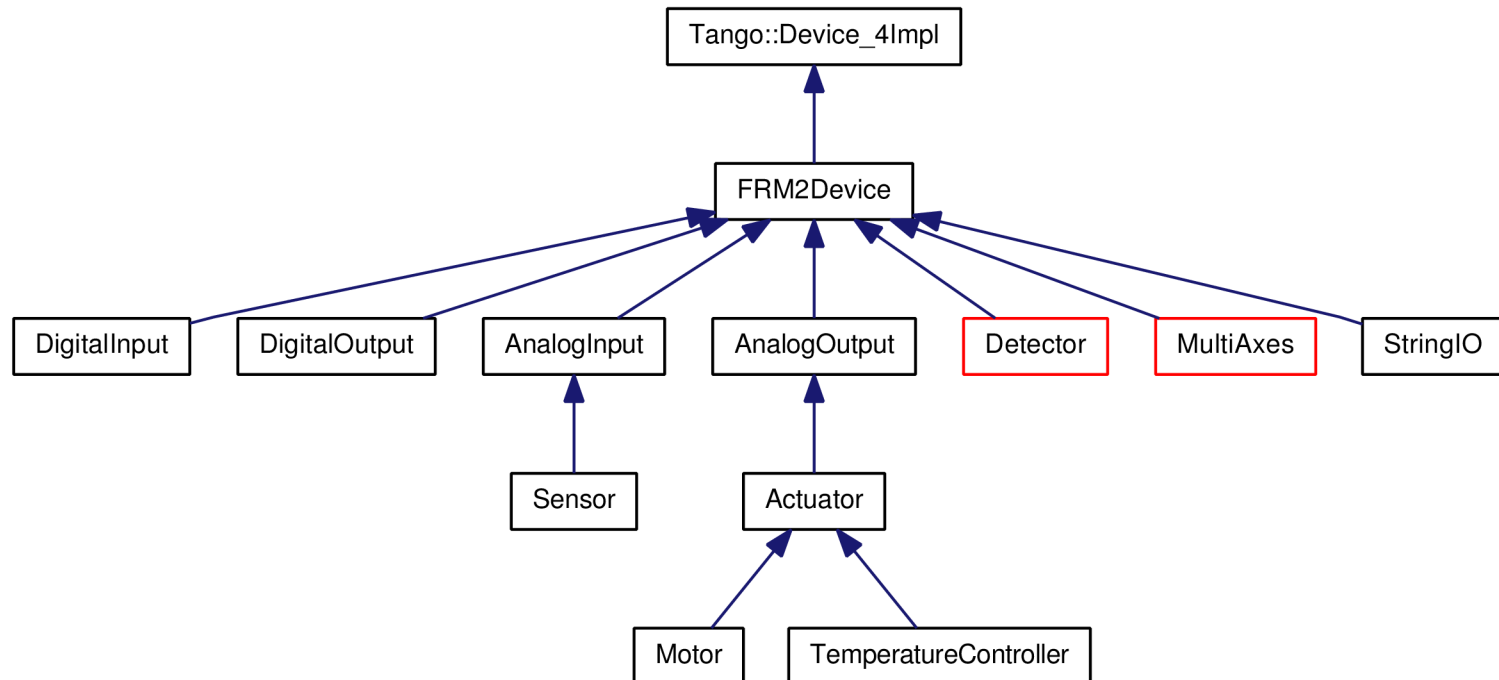


Restructuring IT-Services at FRM-II

- 3 Groups
 - IT-Services
 - Application Software
 - *Instrument Control*
- Instrument Control Group
 - Add 'Know-How' in electronics
 - Responsible also for selection of electronics
 - No electronics development foreseen
 - Development, installation of instrument control
- Cooperation with ZEA-2 of FZ Jülich

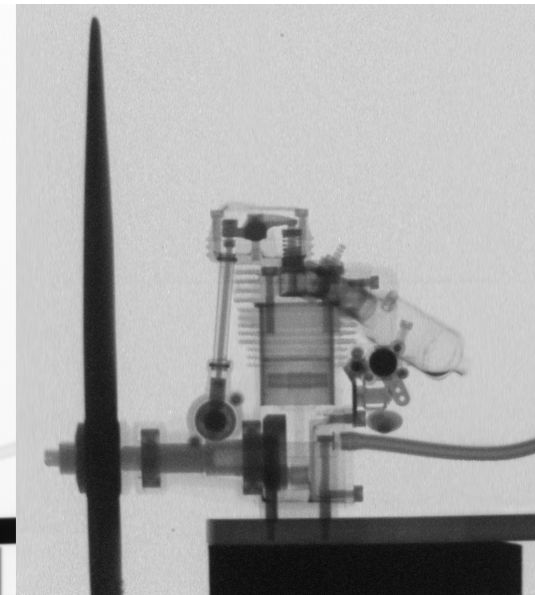
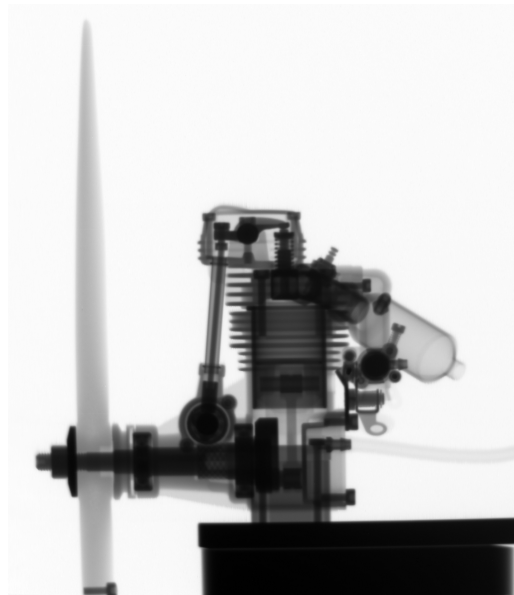
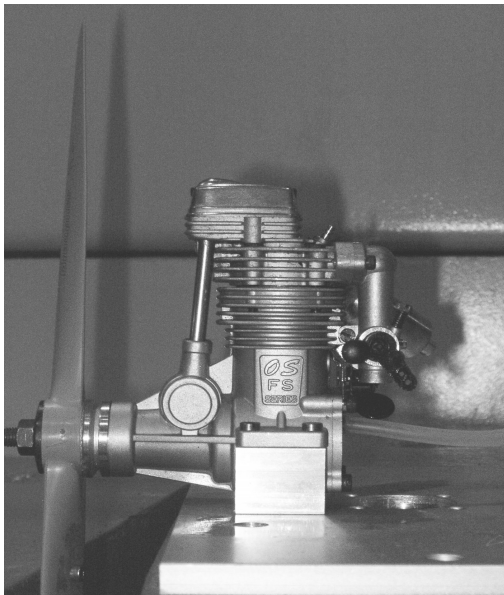
Standard Device Classes

- MLZ – Classes
 - Institute specific class (version, get/set properties, ...)



First TANGO instrument - ANTARES

- Neutron tomography



TACO/TANGO Box

- **Concept**
 - Not a software distribution
 - Plug'n Play solution
 - Hardware and Software as standalone unit
 - Complete with TACO/TANGO system
- **Application**
 - Sample environments: Cryostat, Oven, Magnet, ...
 - Instrument components: Sample changer, tables, ...

TACO/TANGO Box example



NICOS

- Instrument control frontend
- Upcoming standard user interface
- TANGO independent
- Python based
- Proprietary client/server protocol
- Modular

Software development environment

- <http://trac.frm2.tum.de>
- Git – Software repository
- Gerrit – Code review before „check in“
 - <https://trac.frm2.tum.de/review>
- Jenkins – Continuous integration
 - <https://trac.frm2.tum.de/jenkins>
- Redmine – Tracking, management, ...
- All work together in one workflow



MLZ

Heinz Maier-Leibnitz Zentrum
