



# Jddd for Tango

## ✦ Outline

- What is jddd?
- Tango Integration
- Live Demo
- Pros and Cons



# Jddd for Tango

- ◆ JDDD = Java Doocs Data Display  
<http://jddd.desy.de>
- Developed at DESY (MCS group)
- Interactive panel builder
- Stores panels in XML format
- Can use ATK widgets as plugins



# Jddd : Tango Integration

## ◆ Done:

- The Tango interface to Jddd is based 100% on ATK
  - ◆ Events are available for all widgets
  - ◆ Tango error window from all panels
  - ◆ ATK diagnostic window from all panels
- Most of the ATK widgets are available in the jddd palette
  - ◆ Supports a set of basic properties



# Jddd : Tango Integration

## ◆ Done:

- Tango device tree used for address choosing
- Wild cards and address inheritance are possible with ATK widgets



# Jddd : Tango Integration

## ✦ To do:

- Download package on the Tango web site
- Support of Tango history with native widgets
- Make more properties available for ATK widgets
  - ✦ Fonts, colors, rotation, .....
- Documentation for the ATK plugin



# Jddd: Live Demo

**jdddEditor Version 1.0.32/1.04.11**  
 File Edit View Run Settings Help

**Component Inspector**  
 EditorPanel

- MainTabs
  - Overview
  - Section
    - oktant
    - Value1
    - TabbedPane1
    - LayeredPane1
  - Plots
  - Tab3
    - TabbedPane1
      - Tab0
      - Tab1
        - LayeredPane1
        - PlotHist1
        - PlotLocation1
        - DynamicList1
      - Tab2
    - Tab4

**P3\_overview\_win\_3.xml**

Overview Section Plots Sonstiges/other Help/info

Overview Section Plots Sonstiges/other Help/info

Diagram showing components: NL, NR, NOL, NOR, OL, OR, SOL, SOR, SR, SL, SWR, SWL, WR, WL, NWR, NWL.

Thu May 07 08:56:22 CEST 2009

IonPumps	Section	Valves	TSP	PumpStation
+ OR001.6		2.16E-10		<input checked="" type="checkbox"/> HV_ON 4968 4
+ OR003_005.3		2.37E-10		<input checked="" type="checkbox"/> HV_ON 4680 4
+ OR008_010_014.1		2.17E-10		<input checked="" type="checkbox"/> HV_ON 4714 4
+ OR016.1		2.16E-9		<input checked="" type="checkbox"/> HV_ON 4756 4
+ OR019.8_021.5		2.28E-10		<input checked="" type="checkbox"/> HV_ON 4756 4
+ OR024.3_26.3		1.00E-10		<input checked="" type="checkbox"/> HV_ON 4704 4
+ OR028.3_031.4		1.17E-10		<input checked="" type="checkbox"/> HV_ON 4628 4
+ OR032.8		1.15E-9		<input checked="" type="checkbox"/> HV_ON 4854 4
+ OR034.8_037.5_038.8		1.13E-10		<input checked="" type="checkbox"/> HV_ON 4746 4
+ OR040.8_042.8		2.89E-10		<input checked="" type="checkbox"/> HV_ON 4780 4
+ OR047_053		2.55E-9		<input checked="" type="checkbox"/> HV_ON 4592 0

Location (mbar) History

SEK.O\_2 All HV OFF P mean: 1.01E-9 All HV ON +

SEK.OR All HV OFF P mean: 1.33E-8 All HV ON +

boe TSP

0 20 40 80 130 154



# Jddd: Pros and Cons

## ◆ Pros:

- Easy to use, just drag and drop
- Simple plugin interface
- Grouping and aligning of widgets
- Hierarchical panel usage
- Can handle several application layers
- Easy to use logic and animation features
- Widget properties can be organized in tabs



# Jddd: Pros and Cons

## ✦ Pros:

- Address inheritance through the components is possible
  - ✦ Configure a device name only once for the whole panel
- Allows the use of a SVN repository to store and retrieve panel files
- Panels can be integrated into other Java applications (jdddPanel bean)



# Jddd: Pros and Cons

## ◆ Pros:

- Screen shots can be saved as png files or can be printed
- Can be started via java web start



# Jddd: Pros and Cons

## ✦ Cons:

- Open source? GPL license, but CVS repository is only accessible with a DESY account
  - ✦ Can be changed in case of real interest
- No releases
  - ✦ Constant development without CVS tags
  - ✦ Jddd release number cannot be correlated with the corresponding source files
  - ✦ Will hopefully change soon



# Jddd: Pros and Cons

## ◆ Cons:

- No packaging
  - ◆ Only distributed as web start application from a DESY site
- Home made. Not based on any larger framework
  - ◆ Light weight, but home made interfaces



# Jddd: Pros and Cons

## ◆ Cons:

- No testing of new features with Tango
  - ◆ Native testing for Doocs and Tine
- Not all native widgets can be adapted to Tango
  - ◆ Not all Doocs features can be supported by Tango



Any Questions?

Thank you for your attention

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