TangoJS - a web-based interface for TANGO Control System

Michał Liszcz¹, Włodzimierz Funika^{1,2}, Łukasz Żytniak³

¹ AGH, Faculty of Computer Science, Electronics and Telecommunication, Dept. of Computer Science ² AGH, ACC Cyfronet AGH ³ National Synchrotron Radiation Centre Solaris

> KUKDM'16, Zakopane March 16-18







Motivation and Goals

- → TANGO Control System is a CORBA-based solution for controlling hardware in scientific facilities;
- Operators need GUIs synoptic panels to monitor hardware components;
- Modern GUI applications are often built using web-based approach, due to fast prototyping, ease of deployment and great tooling support;
- Unfortunately, CORBA and TANGO applications cannot run in web browser;
- → GOAL: allow for browser-based TANGO client applications.







TangoJS solution

- Modular, extensible architecture
- Core API written in Javascript / ES2015 partly generated from TANGO IDL;
- Connector interface abstracts-out server-side implementation details;
- Widget toolkit framework-agnostic solution based on Web Components spec;

tangojs/test/dev1 ALARM
sine_trend 0.23184643615805217 u
scalar 0.4 0.4 u







