Towards industrialization of Tango Controls

Piotr Goryl, 3Controls
30th Tango Collaboration meeting, ONERA Toulouse, 22-06-2016
Outline

• Who we are
• Mission
• Plans
• Achievements and current activities
• Summary
Who we are?
A start-up created in December 2015 by 3 ambitious people and on basis of the experiences raised from *Solaris* project.
Piotr Goryl

- CEO/Co-founder.
- For six years leader of control and IT systems and team at SOLARIS.
- More than 5 years of experience in controls systems, including MAX IV Laboratory in Sweden.
Julia Szota-Pachowicz

- CIO/Co-founder.
- An experienced systems analyst.
- Phd student at Informatics - Jagiellonian University.
- More than 4 years cooperation with SOLARIS IT group.
Wojciech Soroka

- CAO/Co-founder.
- Procurement coordinator and administration specialist at SOLARIS.
- More than 5 years of experience in foundrising for companies and institutions, especially using UE structural funds.
Our mission
• Combine and support pioneer and agile scientific approach with qualities and durability of industrial approach

• Apply modern business approach which is sustainable development and social responsibility
What we do?
• Implementation of Tango Controls in industry and laboratories
• Software development based on Tango CS
• Device servers certification
• Tango CS trainings
• Currently working on a product called TangoSCADA
• General automation systems
Why we are better than others?
We use powerful software:

Tango Controls – which successfully runs large scale laboratories like MAX IV in Sweden, ESRF in France or Solaris in Poland.
We provide our clients open source and high quality software.

Whatever hardware mixture the customer have, our software provides one system for:

- Production monitoring and control
- Energy consumption monitoring
- Downtime reduction
What will we have done?
• Develop **TangoSCADA** and **TangoMES** - industry ready Tango Controls
  • User-friendliness
  • Simplicity
  • Support for standard industry protocols and devices
  • IoT, Industry 4.0
  • **Plug and Play** packages for certain tasks
In five years:
What we’ve already achieved?
• 20 000 EUR grant from UE for developing of TangoSCADA.
• Several offers prepared
• Learned the market a bit, connections made
• First order – Tango Community/ESRF
• Lectures for AGH University students
What are short term activities?
• Long-term strategy development
• Development of TangoSCADA
• Device Servers catalogue development
• Search for market opportunities
• Looking for founds and investors
• Preparation of a student laboratory powered by Tango Controls
• Preparation of services:
  • Device Servers certification
  • Tango Training
• **TangoSCADA**
  • Current founds:
    • Industry protocols device servers
    • Simplification of Tango system setup
    • Base for *industry widgets* library n Taurus
    • Base for full access control
  • Application for another batch of founds
    • Complete SCADA, common look and feel package
    • IoT, Industry 4.0
    • Web/mobile technologies as standard
    • Security
• Device Servers certification
  • Validation of compliance with
    • Guidelines
    • Customer specification
  • Quality assurance
    • Code quality
    • Documentation
  • On- and/or off-site testing
• **Training on Tango Controls**
  • Program – 3-5 days intensive
    • Quick start
    • Device Server – C++, Python
    • Client
      • Jdraw
      • PyTango
      • C++
      • Taurus
  • Tools
  • Installation
• Multi-user environment
• First round is planned for **October, 2016**

**Welcome to Krakow**
Summary
• Development of TangoSCADA
• We provide services around Tango Controls
  • Software development
  • Device Servers certification
  • Tango Training

We work to make sure that each contract is more collaboration than subcontracting
open source

3Controls

collaboration

freedom
Thank you!

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