# Pogo Roadmap proposal

Damien Lacoste September 15 2021

Damien Lacoste Pogo

Conre

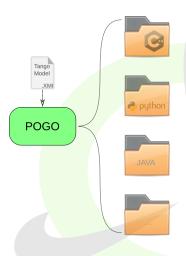
### Pogo roadmap



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Congression

### POGO - Program Obviously used to Generate tango Objects



- ► Tango code generator written in java swing.
- Use a xmi file to describe tango class and device server model.
- Support device servers with several classes.
- GUI to create and manage tango class and device server model.
- Support generators for different languages and uses:
  - C++ code generator.
  - java code generator.
  - Python code generator, in 2 flavors.
  - HTML documentation generator.
- Run with java 11+.

### Pogo roadmap

Pogo

Roadmap proposal

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Congression

### Roadmap

- ► C++ generator code reorganization
  - ► Closer to Tango model.
  - ► Strong cmake integration.
  - ► Build libraries and binaries.
- ► CI/CD.
  - ► Clear release procedure.
  - ► Use of gitlab CI/CD pipelines to test.

COPE

- ► Get rid of "protected region" paradigm.
- ▶ Documentation.
- ► And maybe more. . .

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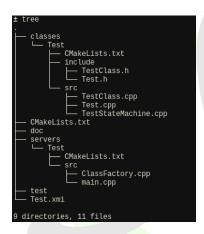
## C++ code generator refactoring

- ► All files in the same directory.
- ► Differences between device server with one or many classes.
- ► Old cmake support.
- No possibility to build a library.

```
tree
.
ClassFactory.cpp
CMakeLists.txt
main.cpp
Makefile
TestClass.cpp
TestClass.h
Test.cpp
Test.h
TestStateMachine.cpp
Test.xmi

directories, 10 files
```

### C++ code generator refactoring



- Clear separation between headers and source files.
- We can see the tango model structure of the classes and device servers.
- All projects are managed the same, whatever the number of classes they ship.
- Modern cmake integration with targets, and support for cmake installation.
- Full control about what to build, may it be a library, binaries, linking to static or shared library, activating support for part of the classes or not through the use of consistent cmake flags.

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Coming next...

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### A few ideas

- ► More powerful command line interface.
- ► Support other input formats.
- ► Rename fr.esrf.\* java classes to org.tango.\*.

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- ► Move away from xtend/xtext technology.
- ► Pogo rewrite ?

# Any Questions? Thanks!

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Documentation
Project repository
https://isocpp.org
https://www.python.org

CONF.05