



**28th TANGO Collaboration Meeting** 

**OPC-UA** 





- The successor of OPC-DA (OLE for Process Control Data Access)
- Released in 2006 by the OPC Foundation
- **OPC was COM/DCOM (1996)**
- OPC-UA is a cross-platform service-oriented architecture
  - Security enhancement, redundancy, heartbeat





■ Need of a framework

■ OpenOpcUa is an open-source and multi-platform framework

Created by a consortium of French companies

- CECILL-C Licensed → compatible with GNU LGPL
  - CECILL stand for CEa Cnrs Inria Logiciel Libre





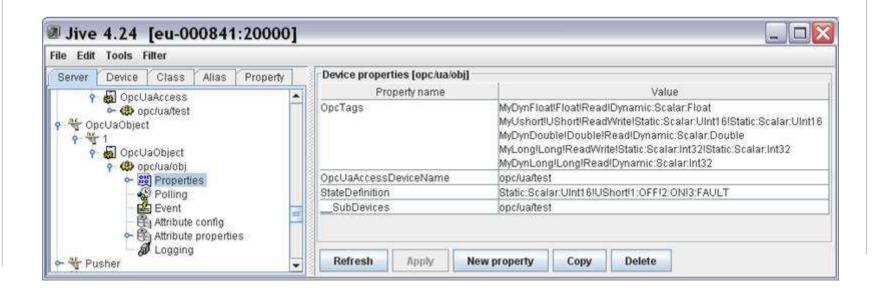
- **TangoOpcUaAccess**
- « Simple » device server for accessing an OPC-UA Server
- **Provides getter/setter for the common basic types**
- OpcUaServerAddress : opc.tcp://localhost:16664/4CEUAServer





## ■ TangoOpcUaObject

- Device Server which dynamically create attributes from properties
  - OpcTags: attr\_name!Boolean!READ\_WRITE!tag\_read\_name!tag\_write\_name
  - StateDefinition: *tagname!1:OFF!2:ON!3:FAULT*







**:** Questions?