TangoATK - A Java Toolkit for Tango

What

Why

How

What is TangoATK - A Java toolkit for Tango

Java

The TangoATK is written in Java and is thus automagically provided with

- The possibility of an object oriented design
- A fully functional GUI library (SWING)
- Platform-independent runtime

Toolkit

The TangoATK is desiged to be a toolkit and not a pluggable application.

- There is no `main()`
- There is no application
- There are only parts

Why TangoATK - A Java toolkit for Tango

Application maintenance

- Make sure that often duplicated code is written once
- Make sure that difficult code works
- Make sure errors are handled in a uniform way

Application development

- Providing predefined functionality
- Removing the need for intimate knowledge of Tango

- Doing all the boring stuff

Application usability

- Same look and feel
- Same functionality

How is this achieved in TangoATK - A Java toolkit for Tango

TangoATK provides an abstraction of Tango

- It provides the programmer with types such as Device, Attribute, and Command

TangoATK provides basic error-handling

- Very rudimentary, but annoying and extensible

TangoATK is extensible

- TangoATK is built with clearly defined interfaces and is therefore easily extensible

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How is this achieved in TangoATK - A Java toolkit for Tango

TangoATK provides a model

- TangoATK talks about attributes, lists of attributes, commands, lists of commands, and devices

TangoATK provides a view

- TangoATK provides a set of predefined modular GUI widgets

TangoATK is integratable with IDEs

- TangoATK applications can be created with a bunch of clicks and little writing

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The model: TangoATK - A Java toolkit for Tango

The TangoATK model

- The application works as the controller
- TangoATK provides the model and the view