



TANGO
Device
Server

Petra3 Interlock control system User's Guide

Petra3ICS Class

**Revision: - Author: tnunez
Implemented in C++**

Introduction:

Interface to the Tine Interlock Control System via url adress.

Class Identification:

- **Contact** : at mail.desy.de - tnunez
- **Class Family** : Miscellaneous
- **Platform** : Unix Like
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - Petra3ICS

Properties:

Device Properties		
Property name	Property type	Description
Beamline	Tango::DEV_LONG	Beamline number

Device Properties Default Values:

Property Name	Default Values
Beamline	0

There is no Class properties.

States:

States	
Names	Descriptions
ON	

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Branch: Branch A or B, only need for beamlines 2, 7 and 12.	DEV_STRING	READ_WRITE	No

Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING
BreakInterlock	DEV_LONG	DEV_VOID

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection.
After an Init command executed on a device, it is not necessary for client to re-connect to the device.
This command first calls the device *delete_device()* method and then execute its *init_device()* method.
For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::ON

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::ON

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**
 - Tango::ON

4 - BreakInterlock

- **Description:** Break interlock for the given area after checking if corresponding shutter is close, if not it close it.
- **Argin:**
DEV_LONG : Area number.
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON

TANGO is an open source project hosted by :
SOURCEFORGE.NET®

Core and Tools : CVS repository on tango-cs project
Device Servers : CVS repository on tango-ds project