



TANGO Device Server

UniBlitz
User's Guide

UniBlitz Class

Revision: - Author: jblume
Implemented in C++

Introduction:

Tango device server to control BFI Optilas UniBlitz shutter controller

Class Inheritance:

- Tango::Device_4Impl
  - UniBlitz

Properties:

Device Properties		
Property name	**Property type**	**Description**
Hostname	Tango::DEV_STRING	Hostname of terminal server (or, if connecting via direct RS232, serial device name)
PortNo	Tango::DEV_SHORT	Port number on terminal server (or, if connecting via RS232, baud rate)
ShutterDefault	Tango::DEV_LONG	The shutter state when the box is powered on. If the state switch on your controller nox is set to N.O, set this to 1, if set to N.C. set this to 0. Default is 0.

Device Properties Default Values:

Property Name	**Default Values**
Hostname	No default value
PortNo	No default value
ShutterDefault	0

There is no Class properties.

States:

States	
Names	**Descriptions**
ON	Device is on
FAULT	Something went wrong

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
OpenShutter	DEV_VOID	DEV_VOID
CloseShutter	DEV_VOID	DEV_VOID
TriggerCtrl	DEV_VOID	DEV_VOID
ResetController	DEV_VOID	DEV_VOID
EnableAux	DEV_VOID	DEV_VOID
DisableAux	DEV_VOID	DEV_VOID
EnableGate	DEV_VOID	DEV_VOID
DisableGate	DEV_VOID	DEV_VOID
ShutterState	DEV_VOID	DEV_LONG

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
  - Tango::FAULT

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
  - Tango::FAULT

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
  - Tango::FAULT

4 - OpenShutter

- **Description:** Open the shutter

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

5 - CloseShutter

- **Description:** Close the shutter

- **Argin:**
  DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**
  - Tango::ON

6 - TriggerCtrl

- **Description:** Enable trigger control

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

7 - ResetController

- **Description:** Reset controller

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

8 - EnableAux

- **Description:** Enable aux input

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

9 - DisableAux

- **Description:** Disable aux input

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

10 - EnableGate

- **Description:** Enable gate

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

11 - DisableGate

- **Description:** Disable gate

- **Argin:**
  DEV_VOID :

- **Argout:**
  DEV_VOID :

- **Command allowed for:**
  - Tango::ON

12 - ShutterState

- **Description:** Return shutter state (0 = closed, 1 = open). Be careful: We can not really ask the hardware for its state (this is not suported), so the return value depends on the last command having been sent.

- **Argin:**

DEV_VOID :

- **Argout:**
  DEV_LONG :

- **Command allowed for:**
  - Tango::ON