



**TANGO**  
Device  
Server

# **IO register User's Guide**

## **IORegister Class**

**Revision: - Author: tere29**  
**Implemented in C++**

### **Introduction:**

Abstract Class for input output registers

### **Class Inheritance:**

- Tango::Device\_4Impl
  - IORegister

### **Properties:**

<b>Device Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>FlagInputOutput</b>	Tango::DEV_SHORT	If 0 input channel/if 1 output channel

Device Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
FlagInputOutput	No default value

**There is no Class properties.**

**States:**

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>ON</b>	Register is ready
<b>FAULT</b>	Register is in error state

**Attributes:**

<b>Scalar Attributes</b>			
<b>Attribute name</b>	<b>Data Type</b>	<b>R/W Type</b>	<b>Expert</b>
<b>Value:</b> Read/Write value	DEV_LONG	READ_WRITE	No

**Commands:**

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
<b>Init</b>	DEV_VOID	DEV_VOID
<b>State</b>	DEV_VOID	DEV_STATE
<b>Status</b>	DEV_VOID	CONST_DEV_STRING

## 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

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