



**TANGO**  
Device  
Server

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# **Fast steerer tango device server. User's Guide**

## **FastSteerer Class**

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**Revision: - Author: peru**  
**Implemented in C++ - CVS repository: ESRF**

### **Introduction:**

This device server is intended to control the fast steerers.

### **Class Inheritance:**

- Tango::Device\_4Impl
  - FastSteerer

### **Properties:**

<b>Device Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>Gescio1DevName</b>	Tango::DEV_STRING	This is the device name of the associated Gescio1 device server.
<b>HighVoltageBit</b>	Tango::DEV_SHORT	This is the Gescio1 input number used to get the power supply HighVoltage state (1=ON, 0=OFF).
<b>RemoteBit</b>	Tango::DEV_SHORT	This is the Gescio1 input number used to get the power supply Remote state (1=LOCAL, 0=REMOTE).
<b>OKBit</b>	Tango::DEV_SHORT	This is the Gescio1 input number used to get the power supply state (1=OK, 0=NOT OK).
<b>EnabledBit</b>	Tango::DEV_SHORT	This is the Gescio1 input number used to get the power supply Enabled state (1=ENABLED, 0=DISABLED).
<b>EnableCmdBit</b>	Tango::DEV_SHORT	This is the GESCIO1 output number which controls the power supply (1=ENABLE, 0=DISABLE, 1-0-1=RESET).

Device Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
Gescio1DevName	No default value
HighVoltageBit	No default value
RemoteBit	No default value
OKBit	No default value
EnabledBit	No default value
EnableCmdBit	No default value

**There is no Class properties.**

**States:**

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>ON</b>	Set when the steerer is enabled.
<b>OFF</b>	Set when the steerer is disabled.
<b>UNKNOWN</b>	Set when it is not possible to know the steerer state.
<b>FAULT</b>	Set when the OK bit is equal to 0.

## Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
HighVoltageState	DEV_SHORT	READ	No
RemoteState	DEV_SHORT	READ	No
EnabledState	DEV_SHORT	READ	No
HighVoltageStateStr	DEV_STRING	READ	No
RemoteStateStr	DEV_STRING	READ	No
EnabledStateStr	DEV_STRING	READ	No
OkBitStr	DEV_STRING	READ	No
FullStateStr	DEV_STRING	READ	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
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
Reset	DEV_VOID	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 destructor automatically calls the *delete\_device()* method.

- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**DEV\_VOID** : none.
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::UNKNOWN
  - 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::OFF
  - Tango::UNKNOWN
  - 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::OFF

- Tango::UNKNOWN
- Tango::FAULT

## 4 - On

- **Description:** Sets the power supply to ON.
- **Argin:**  
**DEV\_VOID :**
- **Argout:**  
**DEV\_VOID :**
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::UNKNOWN
  - Tango::FAULT

## 5 - Off

- **Description:** Sets the power supply to OFF.
- **Argin:**  
**DEV\_VOID :**
- **Argout:**  
**DEV\_VOID :**
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::UNKNOWN
  - Tango::FAULT

## 6 - Reset

- **Description:** Resets the power supply.
- **Argin:**  
**DEV\_VOID :**
- **Argout:**  
**DEV\_VOID :**

● **Command allowed for:**

- Tango::ON
- Tango::OFF
- Tango::UNKNOWN
- Tango::FAULT

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