



TANGO
Device
Server

Tango wrapper for Taco steerer devices User's Guide

SteererWrapper Class

Revision: SteererWrapper-Release_1_3 - Author: meyer
Implemented in C++ - CVS repository: ESRF

Introduction:

To mix old Taco steerer devices and new Tango steerer devices the Taco steerers need to be wrapped with a Tango interface.

Class Identification:

- **Contact** : at esrf.fr - meyer
- **Class Family** : Taco Wrapper (ESRF Specific)
- **Platform** : Unix Like
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - SteererWrapper

Properties:

Device Properties		
Property name	Property type	Description
TacoSteerer	Tango::DEV_STRING	The name of the Taco steerer device.
UpdatePeriod	Tango::DEV_LONG	Maximum update periode for the underlying Taco device in milli seconds.

Device Properties Default Values:

Property Name	Default Values
TacoSteerer	none
UpdatePeriod	1000

There is no Class properties.

States:

States	
Names	Descriptions
ON	Switched on
OFF	Switched off
ALARM	Alarm detected
FAULT	Fault detected, need to be reset.
UNKNOWN	Communication error with Taco steerer device.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Current: Current value.	DEV_DOUBLE	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
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
Reset	DEV_VOID	DEV_VOID
SetpointCheck	DEV_DOUBLE	DEV_SHORT

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::OFF
 - Tango::ALARM
 - Tango::FAULT

- Tango::UNKNOWN

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::ALARM
 - Tango::FAULT
 - Tango::UNKNOWN

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::ALARM
 - Tango::FAULT
 - Tango::UNKNOWN

4 - On

- **Description:** Switch on
- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**
 - Tango::OFF

5 - Off

- **Description:** Switch off

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::FAULT
 - Tango::UNKNOWN

6 - Reset

- **Description:** Reset after fault

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::FAULT
 - Tango::UNKNOWN

7 - SetpointCheck

- **Description:** Check the requested setpoint value against the steerer current limits. Returns 0 when inside the limits and otherwise -1.

- **Argin:**
DEV_DOUBLE :

- **Argout:**
DEV_SHORT :

- **Command allowed for:**

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

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