



TANGO
Device
Server

User's Guide

MchSteererWrapperDc Class

Revision: MchSteererWrapperDc-Release_1_1 - Author: meyer
Implemented in C++ - CVS repository: ESRF

Introduction:

Class Identification:

- **Contact** : at esrf.fr - meyer
- **Class Family** : Miscellaneous
- **Platform** : Unix Like
- **Bus** : Taco

Class Inheritance:

- Tango::Device_4Impl
 - MchSteererWrapperDc

Properties:

Device Properties		
Property name	Property type	Description
TacoMchSteerer	Tango::DEV_STRING	

Device Properties Default Values:

Property Name	Default Values
TacoMchSteerer	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Connection to Taco device established.
UNKNOWN	Connection to Taco device failes, please re-init the device.

Attributes:

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
ReadCurrent	DEV_DOUBLE	256	No
SetCurrent	DEV_DOUBLE	256	No
SteererStates	DEV_SHORT	256	No
ApplyCurrent	DEV_DOUBLE	256	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	DEVVAR_DOUBLEARRAY	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::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::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::UNKNOWN

4 - On

- **Description:** Switch all steerers on.

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

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

5 - Off

- **Description:** Switch all steerers off.

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::UNKNOWN

6 - Reset

- **Description:** Reset all steerers.

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::UNKNOWN

7 - SetpointCheck

- **Description:** Check the requested setpoint values for all steerers, against the steerer current limits. Returns 0 when inside the limits for all steerers and otherwise -1.

- **Argin:**

DEVVAR_DOUBLEARRAY :

- **Argout:**

DEV_SHORT :

- **Command allowed for:**

- Tango::ON
- Tango::UNKNOWN

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Device Servers : CVS repository on tango-ds project