



TANGO
Device
Server

Mirror P09 User's Guide

MirrorP09 Class

Revision: - Author: tnunez
Implemented in C++

Introduction:

Moving mirror according to configuration.

Class Identification:

- **Contact** : at mail.desy.de - tnunez
- **Class Family** : Motion
- **Platform** : Unix Like
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - MirrorP09

Properties:

There is no Class properties.
There is no Device Properties.

States:

States	
Names	Descriptions
ON	
MOVING	
FAULT	

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Position	DEV_DOUBLE	READ_WRITE	No
M1y0	DEV_DOUBLE	READ_WRITE	No
M2y0	DEV_DOUBLE	READ_WRITE	No
M1ygroove	DEV_DOUBLE	READ_WRITE	No
M2ygroove	DEV_DOUBLE	READ_WRITE	No
M1pitch0	DEV_DOUBLE	READ_WRITE	No
M2pitch0	DEV_DOUBLE	READ_WRITE	No
MOffset	DEV_DOUBLE	READ	No
BeamHeight	DEV_DOUBLE	READ	No
Configuration	DEV_LONG	READ_WRITE	No
M1x	DEV_DOUBLE	READ	No
M2x	DEV_DOUBLE	READ	No
M1y	DEV_DOUBLE	READ	No
M2y	DEV_DOUBLE	READ	No
M1pitch	DEV_DOUBLE	READ	No
M2pitch	DEV_DOUBLE	READ	No
M1xCalc	DEV_DOUBLE	READ	No
M2xCalc	DEV_DOUBLE	READ	No
M1yCalc	DEV_DOUBLE	READ	No
M2yCalc	DEV_DOUBLE	READ	No
M1pitchCalc	DEV_DOUBLE	READ	No
M2pitchCalc	DEV_DOUBLE	READ	No
PositionSim	DEV_DOUBLE	READ_WRITE	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
ResultSim	DEV_STRING	6	No
ConfigurationToUse	DEV_STRING	8	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
Calibrate	DEV_VOID	DEV_VOID
StopMove	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 desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::ON
 - Tango::MOVING
 - 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::MOVING
- 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::MOVING
- Tango::FAULT

4 - Calibrate

- **Description:** Only for compatibility reasons. Not used.

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::MOVING
- Tango::FAULT

5 - StopMove

- **Description:** Stop all motors in the PLC of the connected ones.

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::MOVING
- Tango::FAULT

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