









TANGO Device Server

Multiple Axes User's Guide

MultipleAxes Class

Revision: - Author: chaize
Implemented in C++ - CVS repository: ESRF

Introduction:

This class agregate together several devices deriving from the Motor abstract class. The position of each sub motor is mapped in an attribute and the state of the device is calculated with a combination of the states of each motors

Class Inheritance:

- Tango::Device_4Impl
 - MultipleAxes

Properties:

Device Properties				
Property name	Property type	Description		
MotorNameList	Array of string	list of Motor tango devices. e.g. sr/d-mot/id12-x sr/d-mot/id12-v		
AttributeNameList	Array of string	list of attribute name to create in association of each motor e.g. Position_x Position_z		

Device Properties Default Values:

Property Name	Default Values
MotorNameList	jmc/vpap/1 jmc/vpap/3
AttributeNameList	XPos ZPos

There is no Class properties.

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		
Off	DEV_VOID	DEV_VOID		
On	DEV_VOID	DEV_VOID		
Stop	DEV_VOID	DEV_VOID		
GoHome	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:

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:

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:

4 - Off

•	Description: Switch OFF all the motors
•	Argin: DEV_VOID :
•	Argout: DEV_VOID:
•	Command allowed for:
	5 - On
•	Description: Switch ON all the motors
•	Argin: DEV_VOID :
•	Argout: DEV_VOID:
•	Command allowed for:
	6 - Stop
•	6 - Stop Description: Stop all the motors
•	•
•	Description: Stop all the motors Argin:
•	Description: Stop all the motors Argin: DEV_VOID: Argout:
•	Description: Stop all the motors Argin: DEV_VOID: Argout: DEV_VOID:
•	Description: Stop all the motors Argin: DEV_VOID: Argout: DEV_VOID: Command allowed for:
•	Description: Stop all the motors Argin: DEV_VOID: Argout: DEV_VOID: Command allowed for:

• Command allowed for:

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