

MultipleAxes Tango Cpp Class

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MultipleAxes Class Identification :

Contact : at null - null
 Class Family :
 Platform :
 Bus :
 Manufacturer :
 Manufacturer ref. :

MultipleAxes Class Inheritance :

- [Tango::DeviceImpl](#)
 - MultipleAxes

MultipleAxes Class Description :

This class aggregate 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

MultipleAxes Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
MotorNameList	list of Motor tango devices. e.g. sr/d-mot/id12-x sr/d-mot/id12-v	String[]	jmc/vpap/1 jmc/vpap/3
AttributeNameList	list of attribute name to create in association of each motor e.g. Position_x Position_z	String[]	XPos ZPos

MultipleAxes Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
Off	DEV_VOID	DEV_VOID	OPERATOR	Switch OFF all the motors
On	DEV_VOID	DEV_VOID	OPERATOR	Switch ON all the motors
Stop	DEV_VOID	DEV_VOID	OPERATOR	Stop all the motors

GoHome	DEV_VOID	DEV_VOID	OPERATOR	Move all motors to its home position
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Command State :

This command gets the device state (stored in its *device_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Status :

This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

Status Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..

Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Off :

Switch OFF all the motors

Off Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command On :

Switch ON all the motors

On Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	

DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Stop :

Stop all the motors

Stop Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GoHome :

Move all motors to its home position

GoHome Definition		

Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

There is no attribute defined.

There is no dynamic attribute defined.

There is no state defined