

## HexapodConfig Tango Cpp Class

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### **HexapodConfig Class Identification :**

Contact : at desy.de - maria-teresa.nunez-pardo-de-vera  
Class Family : Motion  
Platform : Unix Like  
Bus : Ethernet  
Manufacturer : none  
Manufacturer :  
ref.

### **HexapodConfig Class Inheritance :**

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

### **HexapodConfig Class Description :**

Common settings for all hexapod motors.

## HexapodConfig Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
HexapodCtrlDevice	Hexapod Controller device name for socket connection	String	none
SimulationMode	0 -> real mode, 1 -> simulation mode	int	0
GCSVersion	GCS Command syntax version. 1, 2 or 3 (mix from 1 and 2).	int	1

HexapodConfig Class Commands				
Name	Input type	Output type	Level	Description
<a href="#">State</a>	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.
<a href="#">Status</a>	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.
<a href="#">Reset</a>	DEV_VOID	DEV_VOID	OPERATOR	None.
<a href="#">StopMove</a>	DEV_VOID	DEV_VOID	OPERATOR	None.

## 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	true	..
Polling Period	Not polled	..

Command allowed for	All states	..
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### **Command Status :**

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

<b>Status Definition</b>		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
<hr/>		
Command allowed for	All states	..

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### **Command Reset :**

<b>Reset Definition</b>		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
<hr/>		
Command allowed for	All states	..

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## Command StopMove :

StopMove 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	..

HexapodConfig Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">PositionPivotR</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	R value of pivot point in mm
<a href="#">PositionPivotS</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	S value of pivot point in mm
<a href="#">PositionPivotT</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	T value of pivot point in mm
<a href="#">SlewRate</a>	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	Speed for device in mm/sec resp. deg/s (Speed can not be set for single axes)

There is no dynamic attribute defined.

**Attribute PositionPivotR :**

R value of pivot point in mm

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	mm
standard unit	mm
display unit	mm
format	%6.4f
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

**Attribute PositionPivotS :**

S value of pivot point in mm

Attribute Definition	
Attribute	Scalar

Attribute Properties	
label	

Attribute Event Criteria	
Periodic	Not set

Type	
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

unit	mm
standard unit	mm
display unit	mm
format	%6.4f
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

**Attribute PositionPivotT :**

T value of pivot point in mm

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at	true

Attribute Properties	
label	
unit	mm
standard unit	mm
display unit	mm
format	%6.4f
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set

init.	
Read allowed for	All states
Write allowed for	All states

delta_val	
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Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	false

### **Attribute SlewRate :**

Speed for device in mm/sec resp. deg/s (Speed can not be set for single axes)

<b>Attribute Definition</b>	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write allowed for	All states

<b>Attribute Properties</b>	
label	
unit	
standard unit	
display unit	
format	%6.4f
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

<b>Attribute Event Criteria</b>	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

**HexapodConfig Class States**

Name	Description
ON	
FAULT	