



TANGO
Device
Server

Axis driven by MSC library User's Guide

MSCAxis Class

**Revision: release_1_0_3 - Author: coquet
Implemented in C++**

Introduction:

Class Inheritance:

- Tango::Device_3Impl
 - MSCAxis

Properties:

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

Device Properties Default Values:

Property Name	Default Values
AxisName	No default value

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
position	DEV_DOUBLE	READ_WRITE	No
minimumPosition	DEV_DOUBLE	READ	No
maximumPosition	DEV_DOUBLE	READ	No
isScannable	DEV_BOOLEAN	READ	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
Stop	DEV_VOID	DEV_VOID
InitializeReferencePosition	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 - Stop

- **Description:** Stops the axis

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

5 - InitializeReferencePosition

- **Description:** sends the axis at its initial position (issues DatumAxis())

- **Argin:**
DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

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DEV_VOID : none.

- **Argout:**
CONST_DEV_STRING : Status description

- **Command allowed for:**

4 - Stop

- **Description:** Stops the axis

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

5 - InitializeReferencePosition

- **Description:** sends the axis at its initial position (issues DatumAxis())

- **Argin:**
DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

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Device Commands Description

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- **Argout:**
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4 - Stop

- **Description:** Stops the axis
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
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