



TANGO
Device
Server

Encoder User's Guide

Encoder Class

Revision: - Author: tere29
Implemented in C++

Introduction:

Abstract class for encoder

Class Inheritance:

- Tango::Device_4Impl
 - Encoder

Properties:

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

States:

States	
Names	Descriptions
ON	No problems

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Position: Current position	DEV_DOUBLE	READ	No
Offset: Offset for position calculation	DEV_DOUBLE	READ_WRITE	No
Conversion: Conversion factor for position calculation	DEV_DOUBLE	READ_WRITE	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_DOUBLE	DEV_LONG
InitEncoder	DEV_VOID	DEV_LONG

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

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

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

4 - Calibrate

- **Description:** Calibrate the encoder. Compute offset using current und calibration positions
- **Argin:**
DEV_DOUBLE : Position for calibration
- **Argout:**
DEV_LONG : Completion status
- **Command allowed for:**
 - Tango::ON

5 - InitEncoder

- **Description:** Initialize encoder
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_LONG : Completion status
- **Command allowed for:**
 - Tango::ON

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