



TANGO
Device
Server

Absorber control via PLC

User's Guide

AbsorberController Class

Revision: - Author: tere29
Implemented in C++

Introduction:

Class for controlling the absorber via PLC

Class Inheritance:

- Tango::Device_4Impl
 - AbsorberController

Properties:

Device Properties		
Property name	Property type	Description
PlcServer	Tango::DEV_STRING	The server which export the PLC controlling the absorber
SimulationMode	Tango::DEV_ULONG	0 real mode, 1 simulation mode
NbSliders	Tango::DEV_LONG	

Device Properties Default Values:

Property Name	Default Values
PlcServer	No default value
SimulationMode	No default value
NbSliders	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Idle state
MOVING	
FAULT	

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
FlagMovementOK: Denote if movement of the sliders took place smoothly	DEV_LONG	READ	No
FlagError: Denote if there is an error in any slider	DEV_LONG	READ	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
SetIn	DEV_LONG	24	No
StatusSliders	DEV_LONG	24	No
SlidersOut: Left Hand Side Status Signal. If 1, the slider is out	DEV_LONG	24	No
SlidersIn: Right Hand Side Status Signal. If 1, slider in	DEV_LONG	24	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
Move	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
 - Tango::MOVING
 - Tango::FAULT

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
 - Tango::MOVING
 - Tango::FAULT

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
 - Tango::MOVING
 - Tango::FAULT

4 - Move

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_LONG : Completion status
- **Command allowed for:**
 - Tango::ON
 - Tango::MOVING
 - Tango::FAULT

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