



TANGO
Device
Server

TANGO Device Server User's Guide

PyStateComposer Class

Revision: first - Author: sergi_rubio
Implemented in Python

Introduction:

Class Inheritance:

- PyTango.Device_3Impl
 - PyStateComposer

Properties:

Device Properties		
Property name	Property type	Description
PyStateManager	Tango::DEV_STRING	Manager assigned to this Composer
AttributeName	Tango::DEV_STRING	Global Attribute
DevicesList	Tango::DEVVAR_STRINGARRAY	A list of regular expressions ...
StatePolicy	Tango::DEVVAR_STRINGARRAY	
AlwaysExecutedHook	Tango::DEVVAR_STRINGARRAY	Python Code to be executed before each command execution

Device Properties Default Values:

Property Name	Default Values
PyStateManager	No default value
AttributeName	No default value
DevicesList	No default value
StatePolicy	No default value
AlwaysExecutedHook	No default value

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
StateAttribute	DEV_STRING	READ	No
AttributeValue	DEV_STRING	READ	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
StatesSpectrum	DEV_STRING	256	No
AttributesList	DEV_STRING	256	No
AttributesValues	DEV_STRING	256	No
DevicesList: Devices actually subscribed	DEV_STRING	256	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
AddDevice	DEV_STRING	DEV_VOID
RemoveDevice	DEV_STRING	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 - AddDevice

- **Description:**
- **Argin:**
DEV_STRING : Device to add to the composing
- **Argout:**
DEV_VOID :
- **Command allowed for:**

5 - RemoveDevice

- **Description:**
- **Argin:**
DEV_STRING : Device to remove
- **Argout:**
DEV_VOID :
- **Command allowed for:**

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