



TANGO
Device
Server

8 or 16 Piezos generic bender. User's Guide

PiezoGenericBender Class

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Implemented in C++ - CVS repository: tango-ds

Introduction:

This device allows to pilot a mechanical bender with one, two or four Piezos.

Class Inheritance:

- Tango::Device_4Impl
 - PiezoGenericBender

Class Description:

This device allows to pilot a mechanical bender with one, two or four motors.

Properties:

Device Properties		
Property name	Property type	Description
AttributeVoltageName	Tango::DEV_STRING	Give the name of the attribute to move the Piezo according the Piezos device used.
AttributeTargetName	Tango::DEV_STRING	The target attribute name
Bender1PiezoName	Tango::DEV_STRING	Name of the first piezo bender to create the proxy to this Piezo.
Bender2PiezoName	Tango::DEV_STRING	Name of the second piezo bender to create the proxy to this Piezo.
Bender3PiezoName	Tango::DEV_STRING	Name of the third piezo bender to create the proxy to this Piezo.
Bender4PiezoName	Tango::DEV_STRING	Name of the fourth piezo bender to create the proxy to this Piezo.
Bender5PiezoName	Tango::DEV_STRING	Name of the 5 piezo bender to create the proxy to this Piezo.
Bender6PiezoName	Tango::DEV_STRING	Name of the 6 piezo bender to create the proxy to this Piezo.
Bender7PiezoName	Tango::DEV_STRING	Name of the 7 piezo bender to create the proxy to this Piezo.
Bender8PiezoName	Tango::DEV_STRING	Name of the 8 piezo bender to create the proxy to this Piezo.
Bender9PiezoName	Tango::DEV_STRING	Name of the 9 piezo bender to create the proxy to this Piezo.
Bender10PiezoName	Tango::DEV_STRING	Name of the 10 piezo bender to create the proxy to this Piezo.
Bender11PiezoName	Tango::DEV_STRING	Name of the 11 piezo bender to create the proxy to this Piezo.
Bender12PiezoName	Tango::DEV_STRING	Name of the 12 piezo bender to create the proxy to this Piezo.
Bender13PiezoName	Tango::DEV_STRING	Name of the 13 piezo bender to create the proxy to this Piezo.
Bender14PiezoName	Tango::DEV_STRING	Name of the 14 piezo bender to create the proxy to this Piezo.
Bender15PiezoName	Tango::DEV_STRING	Name of the 15 piezo bender to create the proxy to this Piezo.
Bender16PiezoName	Tango::DEV_STRING	Name of the 16 piezo bender to create the proxy to this Piezo.
CommandStateName	Tango::DEV_STRING	Gives the name of the STATE command according the target device. For SimulatedPiezo it is State.
CommandStopName	Tango::DEV_STRING	Name of the command stop for the reached device.
MaximalAsymmetry	Tango::DEV_DOUBLE	The maximal value for asymmetry value.

MaximalBender1	Tango::DEV_DOUBLE	The maximal bender 1 value.
MaximalBender2	Tango::DEV_DOUBLE	The maximal bender 2 value.
MaximalBender3	Tango::DEV_DOUBLE	The maximal bender 3 value.
MaximalBender4	Tango::DEV_DOUBLE	The maximal bender 4 value.
MaximalBender5	Tango::DEV_DOUBLE	The maximal bender 5 value.
MaximalBender6	Tango::DEV_DOUBLE	The maximal bender 6 value.
MaximalBender7	Tango::DEV_DOUBLE	The maximal bender 7 value.
MaximalBender8	Tango::DEV_DOUBLE	The maximal bender 8 value.
MaximalBender9	Tango::DEV_DOUBLE	The maximal bender 9 value.
MaximalBender10	Tango::DEV_DOUBLE	The maximal bender 10 value.
MaximalBender11	Tango::DEV_DOUBLE	The maximal bender 11 value.
MaximalBender12	Tango::DEV_DOUBLE	The maximal bender 12 value.
MaximalBender13	Tango::DEV_DOUBLE	The maximal bender 13 value.
MaximalBender14	Tango::DEV_DOUBLE	The maximal bender 14 value.
MaximalBender15	Tango::DEV_DOUBLE	The maximal bender 15 value.
MaximalBender16	Tango::DEV_DOUBLE	The maximal bender 16 value.
MaximalCurvature	Tango::DEV_DOUBLE	The maximal curvature value.
MaximalPseudoBender	Tango::DEV_DOUBLE	The maximal value for the Pseudo Bender value (C value).
MinimalAsymmetry	Tango::DEV_DOUBLE	The minimal value for asymmetry value.
MinimalBender1	Tango::DEV_DOUBLE	The minimal bender 1 value.
MinimalBender2	Tango::DEV_DOUBLE	The minimal bender 2 value.
MinimalBender3	Tango::DEV_DOUBLE	The minimal bender 3 value.
MinimalBender4	Tango::DEV_DOUBLE	The minimal bender 4 value.
MinimalBender5	Tango::DEV_DOUBLE	The minimal bender 5 value.
MinimalBender6	Tango::DEV_DOUBLE	The minimal bender 6 value.
MinimalBender7	Tango::DEV_DOUBLE	The minimal bender 7 value.
MinimalBender8	Tango::DEV_DOUBLE	The minimal bender 8 value.
MinimalBender9	Tango::DEV_DOUBLE	The minimal bender 9 value.
MinimalBender10	Tango::DEV_DOUBLE	The minimal bender 10 value.
MinimalBender11	Tango::DEV_DOUBLE	The minimal bender 11 value.
MinimalBender12	Tango::DEV_DOUBLE	The minimal bender 12 value.
MinimalBender13	Tango::DEV_DOUBLE	The minimal bender 13 value.
MinimalBender14	Tango::DEV_DOUBLE	The minimal bender 14 value.

MinimalBender15	Tango::DEV_DOUBLE	The minimal bender 15 value.
MinimalBender16	Tango::DEV_DOUBLE	The minimal bender 16 value.
MinimalCurvature	Tango::DEV_DOUBLE	The minimal curvature value.
MinimalPseudoBender	Tango::DEV_DOUBLE	The minimal value for the Pseudo Bender value (C value).
NumberOfPiezo	Tango::DEV_SHORT	The number of Piezos of the bender.
Rbender1TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender1 table. It is used when the table file contains more than 2 columns
Rbender1TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender1 table. It is used when the table file contains more than 2 columns
Rbender2TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender2 table. It is used when the table file contains more than 2 columns
Rbender2TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender2 table. It is used when the table file contains more than 2 columns
Rbender3TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender3 table. It is used when the table file contains more than 2 columns
Rbender3TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender3 table. It is used when the table file contains more than 2 columns
Rbender4TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender4 table. It is used when the table file contains more than 2 columns
Rbender4TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender4 table. It is used when the table file contains more than 2 columns
Rbender5TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender5 table. It is used when the table file contains more than 2 columns
Rbender5TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender5 table. It is used when the table file contains more than 2 columns
Rbender6TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender6 table. It is used when the table file contains more than 2 columns
Rbender6TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender6 table. It is used when the table file contains more than 2 columns
Rbender7TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender7 table. It is used when the table file contains more than 2 columns
Rbender7TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender7 table. It is used when the table file contains more than 2 columns

Rbender8TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender8 table. It is used when the table file contains more than 2 columns
Rbender8TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender8 table. It is used when the table file contains more than 2 columns
Rbender9TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender9 table. It is used when the table file contains more than 2 columns
Rbender9TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender9 table. It is used when the table file contains more than 2 columns
Rbender10TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender10 table. It is used when the table file contains more than 2 columns
Rbender10TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender10 table. It is used when the table file contains more than 2 columns
Rbender11TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender11 table. It is used when the table file contains more than 2 columns
Rbender11TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender11 table. It is used when the table file contains more than 2 columns
Rbender12TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender12 table. It is used when the table file contains more than 2 columns
Rbender12TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender12 table. It is used when the table file contains more than 2 columns
Rbender13TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender13 table. It is used when the table file contains more than 2 columns
Rbender13TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender13 table. It is used when the table file contains more than 2 columns
Rbender14TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender14 table. It is used when the table file contains more than 2 columns
Rbender14TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender14 table. It is used when the table file contains more than 2 columns
Rbender15TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender15 table. It is used when the table file contains more than 2 columns
Rbender15TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender15 table. It is used when the table file contains more than 2 columns
Rbender16TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender16 table. It is used when the table file contains more than 2 columns

Rbender16TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender16 table. It is used when the table file contains more than 2 columns
RbenderTableFirstIndex	Tango::DEV_ULONG	The index of the first column of the Rbender table. It is used when the table file contains more than 2 columns
RbenderTablePath	Tango::DEV_STRING	The path for the table to compute the R value according the C value
RbenderTableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Rbender table. It is used when the table file contains more than 2 columns
RbenderVoltagesTablePath	Tango::DEV_STRING	The path for the table to compute the R1 value according the C1 value
TablesPath	Tango::DEV_STRING	The path to the tables
UseEquation	Tango::DEV_BOOLEAN	if true, equation are used if false table must be given
V1TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the V1 table. It is used when the table file contains more than 2 columns
V1TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C1 table. It is used when the table file contains more than 2 columns
V2TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the C2 table. It is used when the table file contains more than 2 columns
V2TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C2 table. It is used when the table file contains more than 2 columns
V3TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the C3 table. It is used when the table file contains more than 2 columns
V3TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the Voltage 3 table. It is used when the table file contains more than 2 columns
V4TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 4 table. It is used when the table file contains more than 2 columns
V4TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C4 table. It is used when the table file contains more than 2 columns
V5TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 5 table. It is used when the table file contains more than 2 columns
V5TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C5 table. It is used when the table file contains more than 2 columns
V6TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 6 table. It is used when the table file contains more than 2 columns

V6TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C6 table. It is used when the table file contains more than 2 columns
V7TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 7 table. It is used when the table file contains more than 2 columns
V7TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C7 table. It is used when the table file contains more than 2 columns
V8TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 8 table. It is used when the table file contains more than 2 columns
V8TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C8 table. It is used when the table file contains more than 2 columns
V9TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 9 table. It is used when the table file contains more than 2 columns
V9TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C9 table. It is used when the table file contains more than 2 columns
V10TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 10 table. It is used when the table file contains more than 2 columns
V10TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C10 table. It is used when the table file contains more than 2 columns
V11TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 11 table. It is used when the table file contains more than 2 columns
V11TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C11 table. It is used when the table file contains more than 2 columns
V12TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 12 table. It is used when the table file contains more than 2 columns
V12TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C12 table. It is used when the table file contains more than 2 columns
V13TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 13 table. It is used when the table file contains more than 2 columns
V13TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C13 table. It is used when the table file contains more than 2 columns
V14TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 14 table. It is used when the table file contains more than 2 columns
V14TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C14 table. It is used when the table file contains more than 2 columns

V15TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 15 table. It is used when the table file contains more than 2 columns
V15TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C15 table. It is used when the table file contains more than 2 columns
V16TableFirstIndex	Tango::DEV_ULONG	The index of the first column of the voltage 16 table. It is used when the table file contains more than 2 columns
V16TableSecondIndex	Tango::DEV_ULONG	The index of the second column of the C16 table. It is used when the table file contains more than 2 columns
VoltagesTablePath	Tango::DEV_STRING	The path for the table to compute the voltages values according the Rbender value
GroupName	Tango::DEV_STRING	The group device name
CommandApplyAllVoltagesName	Tango::DEV_STRING	Name of the command of the group device in order to apply all the target volatges selected to the piezos
AutoSendToFalse	Tango::DEV_BOOLEAN	Set the AutoSend flag to false after each SendValue execution

Device Properties Default Values:

Property Name	Default Values
AttributeVoltageName	position
AttributeTargetName	No default value
Bender1PiezoName	No default value
Bender2PiezoName	No default value
Bender3PiezoName	No default value
Bender4PiezoName	No default value
Bender5PiezoName	No default value
Bender6PiezoName	No default value
Bender7PiezoName	No default value
Bender8PiezoName	No default value
Bender9PiezoName	No default value
Bender10PiezoName	No default value
Bender11PiezoName	No default value
Bender12PiezoName	No default value
Bender13PiezoName	No default value
Bender14PiezoName	No default value
Bender15PiezoName	No default value

Bender16PiezoName	No default value
CommandStateName	state
CommandStopName	stop
MaximalAsymmetry	No default value
MaximalBender1	No default value
MaximalBender2	No default value
MaximalBender3	No default value
MaximalBender4	No default value
MaximalBender5	No default value
MaximalBender6	No default value
MaximalBender7	No default value
MaximalBender8	No default value
MaximalBender9	No default value
MaximalBender10	No default value
MaximalBender11	No default value
MaximalBender12	No default value
MaximalBender13	No default value
MaximalBender14	No default value
MaximalBender15	No default value
MaximalBender16	No default value
MaximalCurvature	No default value
MaximalPseudoBender	No default value
MinimalAsymmetry	No default value
MinimalBender1	No default value
MinimalBender2	No default value
MinimalBender3	No default value
MinimalBender4	No default value
MinimalBender5	No default value
MinimalBender6	No default value
MinimalBender7	No default value
MinimalBender8	No default value
MinimalBender9	No default value
MinimalBender10	No default value
MinimalBender11	No default value

MinimalBender12	No default value
MinimalBender13	No default value
MinimalBender14	No default value
MinimalBender15	No default value
MinimalBender16	No default value
MinimalCurvature	No default value
MinimalPseudoBender	No default value
NumberOfPiezo	No default value
Rbender1TableFirstIndex	No default value
Rbender1TableSecondIndex	No default value
Rbender2TableFirstIndex	No default value
Rbender2TableSecondIndex	No default value
Rbender3TableFirstIndex	No default value
Rbender3TableSecondIndex	No default value
Rbender4TableFirstIndex	No default value
Rbender4TableSecondIndex	No default value
Rbender5TableFirstIndex	No default value
Rbender5TableSecondIndex	No default value
Rbender6TableFirstIndex	No default value
Rbender6TableSecondIndex	No default value
Rbender7TableFirstIndex	No default value
Rbender7TableSecondIndex	No default value
Rbender8TableFirstIndex	No default value
Rbender8TableSecondIndex	No default value
Rbender9TableFirstIndex	No default value
Rbender9TableSecondIndex	No default value
Rbender10TableSecondIndex	No default value
Rbender10TableFirstIndex	No default value
Rbender11TableFirstIndex	No default value
Rbender11TableSecondIndex	No default value
Rbender12TableFirstIndex	No default value
Rbender12TableSecondIndex	No default value
Rbender13TableFirstIndex	No default value
Rbender13TableSecondIndex	No default value

Rbender14TableFirstIndex	No default value
Rbender14TableSecondIndex	No default value
Rbender15TableFirstIndex	No default value
Rbender15TableSecondIndex	No default value
Rbender16TableFirstIndex	No default value
Rbender16TableSecondIndex	No default value
RbenderTableFirstIndex	No default value
RbenderTablePath	No default value
RbenderTableSecondIndex	No default value
RbenderVoltagesTablePath	No default value
TablesPath	No default value
UseEquation	No default value
V1TableFirstIndex	No default value
V1TableSecondIndex	No default value
V2TableFirstIndex	No default value
V2TableSecondIndex	No default value
V3TableFirstIndex	No default value
V3TableSecondIndex	No default value
V4TableFirstIndex	No default value
V4TableSecondIndex	No default value
V5TableFirstIndex	No default value
V5TableSecondIndex	No default value
V6TableFirstIndex	No default value
V6TableSecondIndex	No default value
V7TableFirstIndex	No default value
V7TableSecondIndex	No default value
V8TableFirstIndex	No default value
V8TableSecondIndex	No default value
V9TableFirstIndex	No default value
V9TableSecondIndex	No default value
V10TableFirstIndex	No default value
V10TableSecondIndex	No default value
V11TableFirstIndex	No default value
V11TableSecondIndex	No default value

V12TableFirstIndex	No default value
V12TableSecondIndex	No default value
V13TableFirstIndex	No default value
V13TableSecondIndex	No default value
V14TableFirstIndex	No default value
V14TableSecondIndex	No default value
V15TableFirstIndex	No default value
V15TableSecondIndex	No default value
V16TableFirstIndex	No default value
V16TableSecondIndex	No default value
VoltagesTablePath	No default value
GroupName	No default value
CommandApplyAllVoltagesName	No default value
AutoSendToFalse	true

There is no Class properties.

States:

States	
Names	Descriptions
MOVING	Bender is MOVING (at least one Piezo is Moving)
STANDBY	Bender is STANDBY (all Piezos are Standby)
ALARM	Bender is ALARM (at least one Piezo is Alarm)
FAULT	Bender is FAULT not possible to reach a device, getting a value or a state. (In this case it is only allowed to redone a init after correcting the problem with the other devices)
INIT	The device is in this state after the Init command succeeded. After it needs a InitializeBender call to be fully use.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
bender : This value represent the pseudo motor bender. The equation used is $C=a'/R+b'$ with a' and b' the mean of the different a and b values of each motor equation. And we can deduce 1/R thanks the previous equation and use this value like entry point for the curvature attribute.	DEV_DOUBLE	READ_WRITE	No
bender1 : Value of the first bender.	DEV_DOUBLE	READ_WRITE	Yes
bender2 : Value of the second bender.	DEV_DOUBLE	READ_WRITE	Yes
bender3 : Value of the third bender.	DEV_DOUBLE	READ_WRITE	Yes
bender4 : Value of the bender 5.	DEV_DOUBLE	READ_WRITE	Yes
bender5 : Value of the bender 6.	DEV_DOUBLE	READ_WRITE	Yes
bender6 : Value of the bender 7.	DEV_DOUBLE	READ_WRITE	Yes
bender7 : Value of the bender 8.	DEV_DOUBLE	READ_WRITE	Yes
bender8 : Value of the bender 9.	DEV_DOUBLE	READ_WRITE	Yes
bender9 : Value of the bender 5.	DEV_DOUBLE	READ_WRITE	Yes
bender10 : Value of the bender 10.	DEV_DOUBLE	READ_WRITE	Yes
bender11 : Value of the bender 11.	DEV_DOUBLE	READ_WRITE	Yes
bender12 : Value of the bender 12.	DEV_DOUBLE	READ_WRITE	Yes
bender13 : Value of the bender 13.	DEV_DOUBLE	READ_WRITE	Yes
bender14 : Value of the bender 14.	DEV_DOUBLE	READ_WRITE	Yes
bender15 : Value of the bender 15.	DEV_DOUBLE	READ_WRITE	Yes
bender16 : Value of the bender 16.	DEV_DOUBLE	READ_WRITE	Yes
asymmetry : Represents the assymetry value between the two bender motors.	DEV_DOUBLE	READ	No
curvature : This value represents the curvature value (inverse of the curvature radius)	DEV_DOUBLE	READ_WRITE	No
curvatureRadius : This attribute represents the curvature radius of the bender. It's the real value of curvature.	DEV_DOUBLE	READ_WRITE	No
meanCurvature : This the mean curvature (inverse of the mean curvature radius)	DEV_DOUBLE	READ	No
meanCurvatureRadius : The bender mean curvature radius. It is computed thanks the values of the motors	DEV_DOUBLE	READ	No
numberOfPiezos : The number of piloted motors	DEV_SHORT	READ	No
autoSendValues : This attribute indicate if the values computed are automatically send to the motors. If not, the user must use the SendValue command to send the computed values.	DEV_BOOLEAN	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
Stop	DEV_VOID	DEV_VOID
InitializeBender	DEV_VOID	DEV_VOID
SendValues	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:**
 - Tango::MOVING
 - Tango::STANDBY
 - Tango::ALARM
 - Tango::FAULT
 - Tango::INIT

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::MOVING
 - Tango::STANDBY
 - Tango::ALARM
 - Tango::FAULT
 - Tango::INIT

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::MOVING
 - Tango::STANDBY
 - Tango::ALARM
 - Tango::FAULT
 - Tango::INIT

4 - Stop

- **Description:** Stop all the bender Piezos.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :

- **Command allowed for:**

- Tango::MOVING
- Tango::STANDBY
- Tango::ALARM

5 - InitializeBender

- **Description:** This method allows to make the initialization of the four Piezo bender.

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::STANDBY
- Tango::ALARM
- Tango::INIT

6 - SendValues

- **Description:** Send Value" attribute is set to false, this command is necessary to send the computed value.

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::STANDBY
- Tango::ALARM

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