



**TANGO  
Device  
Server**

# **Tango Device Server User's Guide**

## **AttributeListWriter Class**

**Revision: release\_1\_0\_2 - Author: katyho  
Implemented in Java**

### **Introduction:**

This device predefines an enumerated list of values for a simple scalar attribute. Its tango interface is dynamically created from the properties `attributeLabelList` and `attributeEnumeratedValues`. The dynamically created attributes are boolean. For example : `EnumeratedLabelList="isInserted", "isExtracted"` `EnumeratedValueList = "0","100"` Then 2 attributes are created : `isInserted` and `isExtracted`. When `isInserted` is set to true then the controlled attribute is set to 0 When `isExtracted` is set to true then the controlled attribute is set to 100

### **Class Inheritance:**

- `fr.esrf.TangoDs.Device_2Impl`
  - `AttributeListWriter`

## Class Description:

This device writes several predefined values on an attribute list

## Properties:

| Device Properties        |                 |                         |
|--------------------------|-----------------|-------------------------|
| Property name            | Property type   | Description             |
| <b>AttributeNameList</b> | Array of string | The reported attributes |
| <b>CommandNameList</b>   | Array of string | The reported commands   |

Device Properties Default Values:

| Property Name     | Default Values   |
|-------------------|------------------|
| AttributeNameList | No default value |
| CommandNameList   | No default value |

**There is no Class properties.**

## Attributes:

| Scalar Attributes |            |          |        |
|-------------------|------------|----------|--------|
| Attribute name    | Data Type  | R/W Type | Expert |
| <b>version</b>    | DEV_STRING | READ     | No     |

## Commands:

More Details on commands....

| Device Commands for Operator Level |             |                  |
|------------------------------------|-------------|------------------|
| Command name                       | Argument In | Argument Out     |
| <b>Init</b>                        | DEV_VOID    | DEV_VOID         |
| <b>State</b>                       | DEV_VOID    | DEV_STATE        |
| <b>Status</b>                      | DEV_VOID    | CONST_DEV_STRING |

## 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:**

|                                                                                                                                             |                                                                                                                    |
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