



TANGO
Device
Server

SlicerProject User's Guide

Slicer Class

**Revision: release_1_0_1 - Author: siraut
Implemented in C++**

Introduction:

A device which extracts some numerical data from the data produced (stored in one or several attributes) by other devices

Class Inheritance:

- Tango::Device_3Impl
 - Slicer

Properties:

Device Properties		
Property name	Property type	Description
InputAttributes	Array of string	Defines the attributes the slicer should extract data from
OutputNames	Array of string	Defines the names of the dynamically created outputs
Indexes	Array of string	List of (LineIndex, ColumnIndex) which specify which data the slicer should extract from each of the attributes

Device Properties Default Values:

Property Name	Default Values
InputAttributes	No default value
OutputNames	No default value
Indexes	No default value

There is no Class properties.

States:

States	
Names	Descriptions
FAULT	Wrong properties configuration
RUNNING	No extraction problems
ALARM	If the extraction failed on at least one attribute.

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

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::FAULT
 - Tango::RUNNING
 - Tango::ALARM

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::FAULT
 - Tango::RUNNING
 - Tango::ALARM

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::FAULT
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DEV_VOID : none.

- **Argout:**
CONST_DEV_STRING : Status description

- **Command allowed for:**
 - Tango::FAULT
 - Tango::RUNNING
 - Tango::ALARM

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Device Commands Description

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