



TANGO
Device
Server

Tango Device Server User's Guide

SimpleScan Class

**Revision: release_0_9_4 - Author: abeilleg
Implemented in Java**

Introduction:

Publisher is simple device which allows to publish data on the Tango bus.

Class Inheritance:

- fr.esrf.TangoDs.Device_2Impl
 - SimpleScan

Properties:

**There is no Class properties.
There is no Device Properties.**

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
configuration: current configuration	DEV_STRING	READ_WRITE	No
CurrentScanServer	DEV_STRING	READ	No
NbActuators	DEV_LONG	READ	No
NbActuators2	DEV_LONG	READ	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
configurationList	DEV_STRING	255	No
FromList	DEV_DOUBLE	1000	No
ToList	DEV_DOUBLE	1000	No
DeltaList	DEV_DOUBLE	1000	No
FromList2	DEV_DOUBLE	1000	No
ToList2	DEV_DOUBLE	1000	No
DeltaList2	DEV_DOUBLE	1000	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
DScan	DEV_VOID	DEV_VOID
AScan	DEV_VOID	DEV_VOID
Start	DEV_VOID	DEV_VOID
UploadConfigToScanServer	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:**

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 - DScan

- **Description:** Launch with the current configuration but setting all the trajectories to relative positions.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

5 - AScan

- **Description:** Launch a scan with the current configuration but setting all the trajectories to absolute positions.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**


6 - Start

- **Description:** Start a Scan with the loaded configuration without making any change in setting trajectories to absolute or relative positions..
- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :
- **Command allowed for:**

7 - UploadConfigToScanServer

- **Description:** Load current configuration to the ScanServer.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

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