



TANGO
Device
Server

Scan 1D Frontage Device Server User's Guide

Scan1dFront Class

Revision: release_2_1_1 - Author: julien_malik
Implemented in C++ - CVS repository: tango-ds

Introduction:

This class is the Frontage (or Display) for the Scan 1D of the Scan Device Server. It allows to display data in agreement with the 1D Scan.

Class Description:

This class is the Frontage (or Display) for the Scan 1D of the Scan Device Server. It allows to display data in agreement with the 1D Scan.

Tango Device Server User's Guide

Properties:

Device Properties		
Property name	Property type	Description
ScanAttachment	Tango::DEV_STRING	Scan device server attached to

Device Properties Default Values:

Property Name	Default Values
ScanAttachment	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Ready to scan
MOVING	Scanning
STANDBY	Scan 1D is waiting for request

Attributes:

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
Actuator1Data: Data of the 1st actuator	DEV_DOUBLE	10000000	No
Actuator2Data: Data of the 2nd actuator	DEV_DOUBLE	10000000	No
Actuator3Data: Data of the 3rd actuator	DEV_DOUBLE	10000000	No
Actuator4Data: Data of the 4th actuator	DEV_DOUBLE	10000000	No
Actuator5Data	DEV_DOUBLE	10000000	No
Actuator6Data	DEV_DOUBLE	10000000	No
Actuator7Data: Data of the 7th Actuator	DEV_DOUBLE	10000000	No
Actuator8Data: Data of the 8th actuator	DEV_DOUBLE	10000000	No
Sensor1Data: Data of the 1st sensor	DEV_DOUBLE	10000000	No
Sensor2Data: Data of the 2nd sensor	DEV_DOUBLE	10000000	No
Sensor3Data: Data of the 3rd sensor	DEV_DOUBLE	10000000	No
Sensor4Data: Data of the 4th sensor	DEV_DOUBLE	10000000	No
Sensor5Data	DEV_DOUBLE	10000000	No
Sensor6Data	DEV_DOUBLE	10000000	No
Sensor7Data: Data of the 7 Sensor	DEV_DOUBLE	10000000	No
Sensor8Data: Data of the 8 Sensor	DEV_DOUBLE	10000000	No
Sensor9Data: Data of the 9 Sensor	DEV_DOUBLE	10000000	No
Sensor10Data: Data of the 10 Sensor	DEV_DOUBLE	10000000	No
Sensor11Data: Data of the 11 Sensor	DEV_DOUBLE	10000000	No
Sensor12Data: Data of the 12 Sensor	DEV_DOUBLE	10000000	No
Sensor13Data: Data of the 13 Sensor	DEV_DOUBLE	10000000	No
Sensor15Data: Data of the 15 Sensor	DEV_DOUBLE	10000000	No
Sensor14Data: Data of the 14 Sensor	DEV_DOUBLE	10000000	No
Sensor16Data: Data of the 16 Sensor	DEV_DOUBLE	10000000	No
Sensor17Data: Data of the 17 Sensor	DEV_DOUBLE	10000000	No
Sensor18Data: Data of the 18 Sensor	DEV_DOUBLE	10000000	No
Sensor19Data: Data of the 19 Sensor	DEV_DOUBLE	10000000	No
Sensor20Data: Data of the 20 Sensor	DEV_DOUBLE	10000000	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
Start	DEV_VOID	DEV_VOID
Abort	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::ON
 - Tango::MOVING
 - Tango::STANDBY

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::ON
 - Tango::MOVING
 - Tango::STANDBY

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::ON
 - Tango::MOVING
 - Tango::STANDBY

4 - Start

- **Description:** Start the 1D Scan
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::STANDBY

5 - Abort

- **Description:** Abort the 1D Scan
- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::MOVING
 - Tango::STANDBY

TANGO is an open source project hosted by :
SOURCEFORGE.NET®

Core and Tools : CVS repository on tango-cs project
Device Servers : CVS repository on tango-ds project