



TANGO
Device
Server

Fast Scintillation Detector Controller User's Guide

FastSciDetectorCtrl Class

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Implemented in C++

Introduction:

Socket connection to the Fast Scintillation Detector.

Class Identification:

- **Contact** : at desy.de - maria-teresa.nunez-pardo-de-vera
- **Class Family** : Acquisition
- **Platform** : All Platforms
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - FastSciDetectorCtrl

Properties:

Device Properties		
Property name	Property type	Description
PortNb	Tango::DEV_LONG	RS232 Port Number
IpAddr	Tango::DEV_STRING	Ip address of the terminal server
SimulationMode	Tango::DEV_ULONG	0 -> real mode, 1 -> simulation mode

Device Properties Default Values:

Property Name	Default Values
PortNb	10010
IpAddr	No default value
SimulationMode	0

There is no Class properties.

States:

States	
Names	Descriptions
ON	Connection open.
FAULT	Problems in connection.

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
WriteSocket	DEV_STRING	DEV_VOID
WriteReadSocket	DEV_STRING	DEV_STRING
CloseSocket	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 destructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT

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::FAULT

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::FAULT

4 - WriteSocket

- **Description:** Sends a command to the Socket
- **Argin:**
DEV_STRING : Command
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT

5 - WriteReadSocket

- **Description:** Writes a command to the socket and gets the answer.
- **Argin:**
DEV_STRING : Command
- **Argout:**
DEV_STRING : Answer
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT

6 - CloseSocket

- **Description:** Close socket connection.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT

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