



TANGO
Device
Server

APD Detector Server User's Guide

APDDetector Class

Revision: - Author: maria-teresa.nunez-pardo-de-vera
Implemented in C++

Introduction:

Class for controlling the APD Detector Head from Oxford Danfysik.

Class Identification:

- **Contact** : at desy.de - maria-teresa.nunez-pardo-de-vera
- **Class Family** : Instrumentation
- **Platform** : Unix Like
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - APDDetector

Properties:

Device Properties		
Property name	Property type	Description
GpibDeviceName	Tango::DEV_STRING	Gpib device for connecting to the device

Device Properties Default Values:

Property Name	Default Values
GpibDeviceName	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	
FAULT	

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
BiasSetpoint: Bias setpoint of the head in v.	DEV_DOUBLE	READ_WRITE	No
HeadState: Head state.	DEV_STRING	READ_WRITE	No
SCAMode: Mode of the SCA: INT or WIN	DEV_STRING	READ_WRITE	No
SCALowTh: Low level discriminator level.	DEV_DOUBLE	READ_WRITE	No
SCAHighTh: High level discriminator level (only used in WIN mode).	DEV_DOUBLE	READ_WRITE	No
RateWin: Rate meter value in WIN mode.	DEV_DOUBLE	READ	No
RateInt: Rate meter value in INT mode.	DEV_DOUBLE	READ	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

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::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

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