



TANGO
Device
Server

HLS captor device server User's Guide

HlsCaptor Class

Revision: - Author: peru
Implemented in C++ - CVS repository: ESRF

Introduction:

This device server is intended to monitor HLS captors.

Class Inheritance:

- Tango::Device_4Impl
 - HlsCaptor

Properties:

Device Properties		
Property name	Property type	Description
CrateDeviceName	Tango::DEV_STRING	Name of the corresponding HLS Michat crate device name.
Channel	Tango::DEV_SHORT	The channel number on the HLS Michat crate to which the captor is connected.
LevelParameters	Array of double	The parameters used for the calculation of the level.
TemperatureParameters	Array of double	The parameters used for the calculation of the temperature.

Device Properties Default Values:

Property Name	Default Values
CrateDeviceName	No default value
Channel	No default value
LevelParameters	0.0, 1.0
TemperatureParameters	0.0, 1.0

There is no Class properties.

States:

States	
Names	Descriptions
ON	Normal state when everything is Ok.
FAULT	The state is set to FAULT when there is a problem with the Michat crate.
ALARM	The state is set to ALARM when the captor has a problem.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Level	DEV_DOUBLE	READ	No
Temperature	DEV_DOUBLE	READ	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
LevelAndTemperature	DEV_DOUBLE	2	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
 - 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::ON
 - Tango::FAULT
 - 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::ON
 - Tango::FAULT
 - Tango::ALARM

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