



TANGO
Device
Server

SRCorrectors User's Guide

SRCorrectors Class

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Implemented in C++ - CVS repository: ESRF

Introduction:

This class is able to control the ESRF SRCorrectors. It uses other classes: * PowerSupplyCrate class * PowerSupplyChannel class * MchCorrector class

Class Identification:

- **Contact** : at esrf.fr - yohann.lavigne
- **Class Family** : PowerSupply
- **Platform** : Unix Like
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - SRCorrectors

Properties:

Device Properties		
Property name	Property type	Description
CorrectorType	Tango::DEV_STRING	Type of corrector
ChannelList	Array of string	List of Channel

Device Properties Default Values:

Property Name	Default Values
CorrectorType	No default value
ChannelList	No default value

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Current: Current average of chanel(s).	DEV_DOUBLE	READ_WRITE	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
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
Reset	DEV_VOID	DEV_VOID
SetpointCheck	DEV_DOUBLE	DEV_BOOLEAN

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 - On

- **Description:** Switch the corrector ON
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

5 - Off

- **Description:** Switch the corrector OFF
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

6 - Reset

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :

- **Command allowed for:**

7 - SetpointCheck

- **Description:** Check the given current values against the specified limits.
- **Argin:**
DEV_DOUBLE :
- **Argout:**
DEV_BOOLEAN :
- **Command allowed for:**

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