



TANGO
Device
Server

AdcDac User's Guide

AdcDac Class

Revision: release_1_0 - Author: vedder
Implemented in C++ - CVS repository: ESRF

Introduction:

This Class will have a 'value' attribute. This attribute is read on an Adc channel and is written on a Dac channel. Its state will be FAULT if one of the 2 devices Adc or Dac is in Fault. Its state will be UNKNOWN if one of the 2 devices Adc or Dac is in UNKNOWN state.

Class Inheritance:

- Tango::Device_4Impl
 - AdcDac

Class Description:

Properties:

Device Properties		
Property name	Property type	Description
Adc_name	Tango::DEV_STRING	Name of the Adc device.
Dac_name	Tango::DEV_STRING	Name of the Dac device.

Device Properties Default Values:

Property Name	Default Values
Adc_name	No default value
Dac_name	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	All is OK.
FAULT	The ADC device or the DAC device is in FAULT state.
UNKNOWN	The Adc device or the Dac device is in UNKNOWN state or does not respond.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Value	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

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::UNKNOWN

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::UNKNOWN

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::UNKNOWN

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