



TANGO
Device
Server

Vdsp71 for Hqps Vibration User's Guide

HqpsVdspVib Class

Revision: releasetag - Author: taurel
Implemented in C++ - CVS repository: ESRF

Introduction:

This class is part of the HQPS2 project. It manages a Vdsp71 board used to measure the HQPS2 Rotabloc vibrations

Class Identification:

- **Contact** : at esrf.fr - taurel
- **Class Family** : Hqps (ESRF Specific)
- **Platform** : Unix Like
- **Bus** : VME

Class Inheritance:

- Tango::Device_4Impl
 - HqpsVdspVib

Properties:

There is no Class properties.
There is no Device Properties.

States:

States	
Names	Descriptions
ON	The VDSP board is ON and running
FAULT	The VDSP board is in FAULT
MOVING	The Vdsp board is actually loading the DSP code

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
SamplingPeriod: Sampling period to get vibration data for all the board channels	DEV_SHORT	READ_WRITE	No
FFTAverage: Number of points used to compute FFT. This attribute is fr all the channels used in the board	DEV_SHORT	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::MOVING

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::MOVING

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::MOVING

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Device Servers : CVS repository on tango-ds project