



TANGO
Device
Server

HP53132A User's Guide

HP53132A Class

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Implemented in C++ - CVS repository: tango-ds

Introduction:

controls the frequency-meter HP53132A

Class Inheritance:

- Tango::Device_4Impl
 - HP53132A

Properties:

Device Properties		
Property name	Property type	Description
GpibProxyName	Tango::DEV_STRING	name of the gpib device server proxy to call

Device Properties Default Values:

Property Name	Default Values
GpibProxyName	No default value

There is no Class properties.

States:

States	
Names	Descriptions
RUNNING	*
ALARM	*
FAULT	*
STANDBY	

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
frequency: input signal frequency measured on the channel selected	DEV_DOUBLE	READ	No
countsNumber: counts the period number of the signal over the integration time	DEV_LONG	READ	No
inputImpedance: input impedance	DEV_DOUBLE	READ	No
integrationTime: acquiring time	DEV_DOUBLE	READ_WRITE	No
frequencyMeasurementEnabled: select the measurement mode TRUE : frequency FALSE: counting	DEV_BOOLEAN	READ_WRITE	No
countingCompleted: the counting operation is finished (countingCompleted = 1) else (countingCompleted = 0)	DEV_SHORT	READ	Yes

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
Reset	DEV_VOID	DEV_VOID
Start	DEV_VOID	DEV_VOID
Abort	DEV_VOID	DEV_VOID

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::RUNNING
 - Tango::ALARM
 - Tango::FAULT
 - Tango::STANDBY

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::RUNNING
 - Tango::ALARM
 - Tango::FAULT
 - Tango::STANDBY

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::RUNNING
 - Tango::ALARM
 - Tango::FAULT
 - Tango::STANDBY

4 - Reset

- **Description:** Reset device
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::RUNNING

- Tango::ALARM
- Tango::FAULT
- Tango::STANDBY

5 - Start

- **Description:** Start counting
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::RUNNING
 - Tango::ALARM
 - Tango::FAULT
 - Tango::STANDBY

6 - Abort

- **Description:** Stop the current counting action, only available in counting mode
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::RUNNING
 - Tango::ALARM
 - Tango::FAULT
 - Tango::STANDBY

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Core and Tools : CVS repository on tango-cs project
 Device Servers : CVS repository on tango-ds project