



TANGO
Device
Server

VMP3: Multi-channel potentiostat User's Guide

VMP3 Class

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

Introduction:

Device which controls the VMP3 instrument via USB/Ethernet. it uses a dll to communicate.

Class Inheritance:

- Tango::Device_4Impl
 - VMP3

Class Description:

Device Which controls the VMP3 instrument via USB/Ethernet. it uses a dll to communicate.

Properties:

Device Properties		
Property name	Property type	Description
CommunicationID	Tango::DEV_STRING	ID of the communication, eg: 192.109.209.200 or USB0 or USB1

Device Properties Default Values:

Property Name	Default Values
CommunicationID	USB0

There is no Class properties.

States:

States	
Names	Descriptions
RUNNING	Channels are Running
OFF	Channels are Stopped
STANDBY	Channels are Paused

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
libVersion: Version of the DLL Lib	DEV_STRING	READ	Yes
lastErrorMessage: Last Error Message	DEV_STRING	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
StartAll	DEV_VOID	DEV_VOID
StopAll	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::OFF
 - 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::OFF
- 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::OFF
- Tango::STANDBY

4 - StartAll

- **Description:** Start all selected channels

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::RUNNING
- Tango::OFF
- Tango::STANDBY

5 - StopAll

- **Description:** Stop all selected channels

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::RUNNING
- Tango::OFF
- Tango::STANDBY

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