



**TANGO**  
Device  
Server

# VacHumidity User's Guide

## VacHumidity Class

Revision: Release\_2\_0 - Author: peru  
Implemented in C++ - CVS repository: ESRF

### Introduction:

This server handles humidity captor for vacuum, and store it into HDB.

### Class Inheritance:

- Tango::Device\_4Impl
  - VacHumidity

### Properties:

<b>Device Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>Humidity_wago_addr</b>	Tango::DEV_SHORT	This is the address of humidity measurement into plcWago's memory.
<b>Wago_device_name</b>	Tango::DEV_STRING	This is the PLC-Wago's device name, we use to read values.
<b>Hdb_access_device_name</b>	Tango::DEV_STRING	This is the name of hdbAccess server used to store humidity in HDB.
<b>RelativeChange</b>	Tango::DEV_DOUBLE	This is the Delta between current and previous value, (in %) minimum for HDB storage.
<b>HdbMaxDelay</b>	Tango::DEV_LONG	If values doesn't change, store data in HDB every hdbMaxDelay seconds.
<b>HdbExceptNoRetry</b>	Tango::DEV_SHORT	Number of storage tries to skip, if we receive exception from sys/hdb-push server (HDB storage failed).
<b>HumidityHdbSignalName</b>	Tango::DEV_STRING	This is the name of the signal in hdb.
<b>Error_code_address</b>	Tango::DEV_USHORT	This is the address, in wago's memory, where are stored major, and minor error codes. Major is a Error_code_address, minor is a +1 from Major.

#### Device Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
Humidity_wago_addr	No default value
Wago_device_name	No default value
Hdb_access_device_name	No default value
RelativeChange	No default value
HdbMaxDelay	No default value
HdbExceptNoRetry	No default value
HumidityHdbSignalName	No default value
Error_code_address	No default value

**There is no Class properties.**

#### Attributes:

<b>Scalar Attributes</b>			
<b>Attribute name</b>	<b>Data Type</b>	<b>R/W Type</b>	<b>Expert</b>
<b>Humidity:</b> This is the percentage of humidity.	DEV_SHORT	READ	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:**

### 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:**

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