TANGO Device Server
User's Guide

HqpsBinIn Class

Revision: tata - Author: goudard
Implemented in Python

Introduction:

This class is part of the HQPS project. Its aim i sto report the Wago PLC binary inputs. Each device has only a state which reflects the binary input value (OPEN/CLOSE). A device can also be in FAULT is the PLC software is not running

Class Inheritance:

- PyTango.Device_4Impl
  - HqpsBinIn

Properties:

Class Properties		
Property name	**Property type**	**Description**
ModbusDevName	Tango::DEV_STRING	Wago PLC Modbus device name

Device Properties		
Property name	**Property type**	**Description**
ModbusDevName	Tango::DEV_STRING	Wago PLC Modbus device name
Address	Tango::DEV_LONG	Address in PLC
BitNumber	Tango::DEV_LONG	Bit number in PLC data

Class Properties Default Values:

Property Name	Default Values</td>
ModbusDevName	No default value

Device Properties Default Values:

Property Name	Default Values
ModbusDevName	No default value
Address	0
BitNumber	-1

States:

States	
Names	**Descriptions**
OPEN	
CLOSE	
FAULT	The PLC softaware is not running or there is a problem with the 5 V DC

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::OPEN
- Tango::CLOSE
- Tango::FAULT

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::OPEN

- ○ Tango::CLOSE
- ○ Tango::FAULT

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::OPEN
- ○ Tango::CLOSE
- ○ Tango::FAULT

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