



**TANGO**  
Device  
Server

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# **Power supply flexibility User's Guide**

## **PSFlexibility Class**

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**Revision: - Author: peru**  
**Implemented in C++ - CVS repository: ESRF**

### **Introduction:**

This device server is dedicated to the diagnostics of the power supply flexibility system.

### **Class Inheritance:**

- Tango::Device\_4Impl
  - PSFlexibility

### **Properties:**

| <b>Device Properties</b> |                      |   |
|--------------------------|----------------------|---|
| <b>Property name</b>     | <b>Property type</b> | <b>Description</b>  |
| <b>PlcDeviceName</b>     | Tango::DEV_STRING    | The device name of the associated PLC.  |
| <b>FlexibilityType</b>   | Tango::DEV_STRING    | Property udes to determine which kind of analysis must be applied to the data read from the Wago. Set to dss_id4_hfo_id6, hfo_id11 or hfo_id20. |

Device Properties Default Values:

| <b>Property Name</b> | <b>Default Values</b> |
|----------------------|-----------------------|
| PlcDeviceName        | No default value      |
| FlexibilityType      | 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>ModbusError</b>       | DEV_STRING       | READ            | No            |

**Commands:**

More Details on commands....

| <b>Device Commands for Operator Level</b> |                    |                     |
|---|--------------------|---------------------|
| <b>Command name</b>                       | <b>Argument In</b> | <b>Argument Out</b> |
| <b>Init</b>                               | DEV_VOID           | DEV_VOID            |
| <b>State</b>                              | DEV_VOID           | DEV_STATE           |
| <b>Status</b>                             | 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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