



TANGO
Device
Server

Diris device server **User's Guide**

Diris Class

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

Introduction:

This device server is intended to monitor the values of interest collected for a specified Diris device. The values are acquired through the DirisCollector device server.

Class Identification:

- **Contact** : at esrf.fr - peru
- **Class Family** : PowerSupply
- **Platform** : Unix Like
- **Bus** : Not Applicable

Class Inheritance:

- Tango::Device_4Impl
 - Diris

Class Description:

This device server is intended to monitor the values of interest collected for a specified Diris device.
The values are acquired through the DirisCollector device server.

Properties:

Device Properties		
Property name	Property type	Description
Address	Tango::DEV_SHORT	The modbus address of the device
CollectorDevicename	Tango::DEV_STRING	The device name of the DirisCollector device collecting data for this Diris

Device Properties Default Values:

Property Name	Default Values
Address	No default value
CollectorDevicename	No default value

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
NeutralCurrent	DEV_DOUBLE	READ	No
SigmaActivePower	DEV_DOUBLE	READ	No
SigmaReactivePower	DEV_DOUBLE	READ	No
ActiveEnergy	DEV_DOUBLE	READ	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
WholeDataSet	DEV_DOUBLE	50	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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