



TANGO
Device
Server

Danfysik User's Guide

Danfysik Class

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

Introduction:

This class will manage the Danfysik System 8000 and 8100 Powersupplies

Class Inheritance:

- Tango::Device_4Impl
 - Danfysik

Properties:

Class Properties

Property name	Property type	Description
Datsockets_host	Tango::DEV_STRING	Name of the host where the NI Datasocket server is running.
Datasocket	Tango::DEV_STRING	Name of the DataSocket device.

Device Properties

Property name	Property type	Description
Datasocket	Tango::DEV_STRING	Name of the DataSocket device.
Set_url	Tango::DEV_STRING	Datasocket URL used to set the current attribute. (for example dstp://orion.esrf.fr/my_appli/current)
On_url	Tango::DEV_STRING	Url to switch the power ON.
Read_url	Tango::DEV_STRING	Url used to read the current attribute. (for example dstp://orion.esrf.fr/my_appli/read).
Reset_url	Tango::DEV_STRING	url used to reset the channel.
Faults_url	Tango::DEV_STRING	url used to get the faults on the channel.
Datsockets_host	Tango::DEV_STRING	Name of the host where the NI Datasocket server is running.

Class Properties Default Values:

Property Name	Default Values
Datsockets_host	No default value
Datasocket	No default value

Device Properties Default Values:

Property Name	Default Values
Datasocket	No default value
Set_url	No default value
On_url	No default value
Read_url	No default value
Reset_url	No default value
Faults_url	No default value
Datsockets_host	No default value

States:

States	
Names	Descriptions
ON	The power supply is on.
OFF	The power supply is off.
FAULT	

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
current: Current	DEV_DOUBLE	READ_WRITE	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
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
Reset	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::ON
 - Tango::OFF
 - 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::ON
 - Tango::OFF
 - 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::ON
- Tango::OFF
- Tango::FAULT

4 - On

- **Description:**

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::OFF
- Tango::FAULT

5 - Off

- **Description:**

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::OFF
- Tango::FAULT

6 - Reset

- **Description:**

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

● **Command allowed for:**

- Tango::ON
- Tango::OFF
- Tango::FAULT

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