

## MultiChannelPowerSupply Tango Cpp Class

### Contents :

- [Description](#)
- [Properties](#)
- [Commands](#)
  - [State](#)
  - [Status](#)
  - [On](#)
  - [Off](#)
  - [Reset](#)
- [Attributes](#)
  - [CurrentSetPoint](#)
  - [Voltage](#)
  - [Current](#)
  - [SubDevicesStates](#)
- [States](#)

### MultiChannelPowerSupply Class Identification

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Contact : at null - null  
 Class Family :  
 Platform :  
 Bus :  
 Manufacturer :  
 Manufacturer ref. :

### MultiChannelPowerSupply Class Inheritance :

- [Tango::DeviceImpl](#)
  - PowerSupply
    - MultiChannelPowerSupply

### MultiChannelPowerSupply Class Description :

MultiChannelPowerSupply, handle multiple devices that implements the power supply interface in parallel.

### MultiChannelPowerSupply Properties :

## There is no class properties

Device Properties			
Name	Description	Type	Default Value
DeviceList	This is the list of the managed devices.	String[]	none
ExportedAttribute	Attribute from subdevice to create dynamically. Correct Values are : Current OR Voltage.	String	Current
ExportedAttributesLabels	Attribute from subdevice to create dynamically.	String[]	none

MultiChannelPowerSupply Class Commands				
Name	Input type	Output type	Level	Description
<a href="#">State</a>	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
<a href="#">Status</a>	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
<a href="#">On</a>	DEV_VOID	DEV_VOID	OPERATOR	Switch powersupply ON.
<a href="#">Off</a>	DEV_VOID	DEV_VOID	OPERATOR	Switch powersupply OFF.
<a href="#">Reset</a>	DEV_VOID	DEV_VOID	OPERATOR	Reset the powersupply to a well known state.

## **Command State :**

This command gets the device state (stored in its *device\_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

### **Command Status :**

This command gets the device status (stored in its *device\_status* data member) and returns it to the caller.

Status Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

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### **Command On :**

Switch powersupply ON.

On Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

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### **Command Off :**

Switch powersupply OFF.

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Off Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

### **Command Reset :**

Reset the powersupply to a well known state.

Reset Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

MultiChannelPowerSupply Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">CurrentSetPoint</a>	true	false	Spectrum	READ	Tango::DEV_DOUBLE	OPERATOR	The current set value as stored in the powersupply.
<a href="#">Voltage</a>	true	false	Spectrum	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	The powersupply voltage in volts.
<a href="#">Current</a>	true	false	Spectrum	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	The powersupply current

							setting in amps
<a href="#">SubDevicesStates</a>	true	false	Spectrum	READ	Tango::DEV_STATE	OPERATOR	

**There is no dynamic attribute defined.**

**Attribute CurrentSetPoint :**

The current set value as stored in the powersupply.

Attribute Definition	
Attribute Type	Spectrum ( 256 )
R/W Type	READ
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

**Attribute Voltage :**

The powersupply voltage in volts.

Attribute Definition	
Attribute Type	Spectrum ( 256 )
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

**Attribute Current :**

The powersupply current setting in amps

Attribute Definition	
Attribute Type	Spectrum ( 256 )
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
	Not

Read allowed for	All states
Write allowed for	All states

min_warning	
delta_time	
delta_val	

Archive Absolute Change	set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

**Attribute SubDevicesStates :**

Attribute Definition	
Attribute Type	Spectrum ( 256 )
R/W Type	READ
Data Type	Tango::DEV_STATE
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

**There is no state defined**

