

SY2527Channel Tango Cpp Class

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SY2527Channel Class Identification :

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

SY2527Channel Class Inheritance :

- [Tango::DeviceImpl](#)
 - SY2527Channel

SY2527Channel Class Description :

this device manages one channel of the SY2527 Power Supply Board.
it is the client of the SY2527Crate device

SY2527Channel Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
SlotNumber	slot number of the concerned power supply board	short	none
ChannelNumber	specific channel number of the power supply board	short	none
SY2527CrateProxyName	name of the SY2527Crate device proxy	String	none

SY2527Channel Class Commands				
Name	Input type	Output type	Level	Description
State	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.
Status	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.
PowerON	DEV_VOID	DEV_VOID	OPERATOR	preset voltage is applied on this channel
PowerOFF	DEV_VOID	DEV_VOID	OPERATOR	preset voltage is no more applied on this channel

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	false	..
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	..

Command PowerON :

preset voltage is applied on this channel

PowerON Definition		
Input Argument	Tango::DEV_VOID	nothing
Output Argument	Tango::DEV_VOID	nothing
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command PowerOFF :

preset voltage is no more applied on this channel

PowerOFF Definition		
Input Argument	Tango::DEV_VOID	nothing
Output Argument	Tango::DEV_VOID	nothing
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

SY2527Channel Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
voltage	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
deltaVoltage	false	false	Scalar	WRITE	Tango::DEV_DOUBLE	OPERATOR	

There is no dynamic attribute defined.

Attribute voltage :

Attribute

Attribute

Attribute Event

Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Properties	
label	voltage
unit	V
standard unit	V
display unit	V
format	%6.2f
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 deltaVoltage :

Attribute Definition	
Attribute Type	Scalar
R/W Type	WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled

Attribute Properties	
label	shift voltage
unit	V
standard unit	V
display unit	V
format	%6.2f
max_value	
min_value	
max_alarm	
min_alarm	

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

Memorized Write hardware at init.	true
	true
Write allowed for	All states

max_warning	
min_warning	
delta_time	
delta_val	

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

SY2527Channel Class States	
Name	Description
STANDBY	channel is ON
OFF	the channel is switched off
FAULT	the channel: - is in unpugged state - and / or is in calibration error state and / or communication problem with SY2527Crate
RUNNING	channel is ramping up or down
ALARM	Channel is either in: - overcurrent - overvoltage - undervoltage