

TIP551 Tango Cpp Class

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TIP551 Class Identification :

Contact : at desy.de - maria-teresa.nunez-pardo-de-vera
Class Family : InputOutput
Platform : All Platforms
Bus : VME
Manufacturer : none
Manufacturer ref. :

TIP551 Class Inheritance

:

- [Tango::DeviceImpl](#)
 - TIP551

TIP551 Class Description :

Server for controlling TIP551 DAC. It describes one channel.

TIP551 Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
Base	VME base address. Default value 0xa00 (in decimal 2560)	int	2560
Channel	DAC Channel	int	0
SimulationMode	0 real mode, 1 simulation mode	int	none
RangeMin	The range reflects the status of the jumper J1, can be [-10V,10V] or [0,10V]	double	0
RangeMax	the range reflects the jumper J1 status. We have [-10V,10V] and [0,10V]	double	10
VmeCard	select the VME card, can be 0 or 1, def.: 0	int	0

TIP551 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.
GetDACVoltage	DEV_VOID	DEV_DOUBLE	OPERATOR	It returns the last Voltage that has been send to hardware

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	..

Command GetDACVoltage :

It returns the last Voltage that has been send to hardware

GetDACVoltage Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_DOUBLE	Last Set DAC Voltage
DisplayLevel	OPERATOR	..

Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

TIP551 Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
Voltage	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
VoltageMin	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
VoltageMax	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	

There is no dynamic attribute defined.

Attribute Voltage :

Attribute 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

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
Archive Absolute Change	Not

Write hardware at init.	Not set
Read allowed for	All states
Write allowed for	All states

min_warning	
delta_time	
delta_val	

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

Attribute VoltageMin :

Attribute 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

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 VoltageMax :

Attribute 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

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

TIP551 Class States	
Name	Description
ON	DAC is ready
FAULT	Problems in DAC