ProlologixGpib Tango Cpp Class

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PrologixGpib Class Identification :

Contact	: at desy.de - johannes.blume
Class Family	: Communication
Platform	: Unix Like
Bus	: Ethernet
Manufacturer	: Prologix
Manufacturer ref.	: http://prologix.biz/gpib-ethernet-controller.html

PrologixGpib Class Inheritance :

- Tango::DeviceImpl
  - PrologixGpib

PrologixGpib Class Description :

Tango device server for the PrologixGpib LAN adapter

PrologixGpib Properties :

There is no class properties

Device Properties			
Name	**Description**	**Type**	**Default Value**
HostName	hotsname or ip address	String	none

PrologixGpib Class Commands				
Name	**Input type**	**Output type**	**Level**	**Description**
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its device_state data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its device_status data member) and returns it to the caller.
GPIBWrite	DEV_STRING	DEV_VOID	OPERATOR	Write string to connected gpib device
GPIBWriteRead	DEV_STRING	DEV_STRING	OPERATOR	Write string to connected gpib device and return reply

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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	Device state
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	Device status
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GPIBWrite :

Write string to connected gpib device

GPIBWrite Definition		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	• FAULT	..

Command GPIBWriteRead :

Write string to connected gpib device and return reply

GPIBWriteRead Definition		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_STRING	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	• FAULT	..

ProloigixGpib Class Attributes							
Name	**Inherited**	**Abstract**	**Attr. type**	**R/W type**	**Data type**	**Level**	**Description**
Mode	false	false	Scalar	READ_WRITE	Tango::DEV_BOOLEAN	OPERATOR	true: controller mode, the prologix box acts as controller-in-charge on the GPIB bus false: device mode, the prologix box acts as another peripheral on the GPIB bus
ReadTimeout	false	false	Scalar	READ_WRITE	Tango::DEV_ULONG	OPERATOR	read timeout in ms

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There is no dynamic attribute defined.

Attribute Mode :

true: controller mode, the prologix box acts as controller-in-charge on the GPIB bus

false: device mode, the prologix box acts as another peripheral on the GPIB bus

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

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	false

Attribute ReadTimeout :

read timeout in ms

Attribute Definition	

Attribute Properties

Attribute Event Criteria	
	Not

Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_ULONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read NOT allowed for	• FAULT
Write NOT allowed for	• FAULT

label	
unit	ms
standard unit	ms
display unit	ms
format	
max_value	3000
min_value	1
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Periodic	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	false

PrologixGpib Class States	
Name	**Description**
ON	
FAULT	