

TangoCA Tango Cpp Class

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TangoCA Class Identification :

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

TangoCA Class Inheritance :

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

TangoCA Class Description :

This is the tango channel access device server using ezCA

TangoCA Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
EzTimeout	Timeout of the ezca internally calls (not the Tango device server timeout)	float	none
EzRetryCount	Retry count of the ezca internal calls	int	none
TangoRetryCount	Number of retry in the TangoEZCA Device Server commands	short	none

TangoCA 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.
ReadDoublePV	DEV_STRING	DEV_DOUBLE	OPERATOR	Read a double PV on a EPICS CAS / IOC
WriteDoublePV	DEVVAR_DOUBLESTRINGARRAY	DEV_VOID	OPERATOR	Write on a double PV on a EPICS CAS / IOC

ReadLongPV	DEV_STRING	DEV_LONG	OPERATOR	Read a value on a Long PV
WriteLongPV	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write on a Long PV on a EPICS CAS / IOC
ReadStringPV	DEV_STRING	DEV_STRING	OPERATOR	Read a String value from an EPICS CAS / IOC PV
WriteStringPV	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	Write a String value on an EPICS CAS / IOC PV
SetDoubleMonitor	DEV_STRING	DEV_VOID	OPERATOR	Put a monitor on the wanted Double PV
ClearDoubleMonitor	DEV_STRING	DEV_VOID	OPERATOR	Clear the monitor of the wanted Double PV
SetLongMonitor	DEV_STRING	DEV_VOID	OPERATOR	Set a Monitor on a Long PV
ClearLongMonitor	DEV_STRING	DEV_VOID	OPERATOR	Clear the monitor on a Long PV
IsNewMonitorValue	DEV_STRING	DEV_LONG	OPERATOR	Indicate if the Monitor value has change
MonitorDelay	DEV_FLOAT	DEV_VOID	OPERATOR	Make a tempo of Argin sec. Used for not losing changes of the PV

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 ReadDoublePV :

Read a double PV on a EPICS CAS / IOC

ReadDoublePV Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_DOUBLE	Value of the PV
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..

Command allowed for	All states	..
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Command WriteDoublePV :

Write on a double PV on a EPICS CAS / IOC

WriteDoublePV Definition		
Input Argument	Tango::DEVVAR_DOUBLESTRINGARRAY	s0: Name of PV-d1:Value to write
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ReadLongPV :

Read a value on a Long PV

ReadLongPV Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_LONG	Value of the PV
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command WriteLongPV :

Write on a Long PV on a EPICS CAS / IOC

WriteLongPV Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	s0: Name of the PV-- L0: value of the PV
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ReadStringPV :

Read a String value from an EPICS CAS / IOC PV

ReadStringPV Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_STRING	Value of the PV
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command WriteStringPV :

Write a String value on an EPICS CAS / IOC PV

WriteStringPV Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	s0: Name of the PV--s1:Value of the PV
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetDoubleMonitor :

Put a monitor on the wanted Double PV

SetDoubleMonitor Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ClearDoubleMonitor :

Clear the monitor of the wanted Double PV

ClearDoubleMonitor Definition		
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Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetLongMonitor :

Set a Monitor on a Long PV

SetLongMonitor Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ClearLongMonitor :

Clear the monitor on a Long PV

ClearLongMonitor Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..

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

Command IsNewMonitorValue :

Indicate if the Monitor value has change

IsNewMonitorValue Definition		
Input Argument	Tango::DEV_STRING	Name of the PV
Output Argument	Tango::DEV_LONG	0: no changes-- non-0:changes
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command MonitorDelay :

Make a tempo of Argin sec. Used for not losing changes of the PV

MonitorDelay Definition		
Input Argument	Tango::DEV_FLOAT	Value of the delay
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

There is no attribute defined.

There is no dynamic attribute defined.

TangoCA Class States	
Name	Description
ON	The TangoEZCA Device Server work properly
OFF	The TangoEZCA device server is not working properly
FAULT	Error as occurred