CWGenCross Tango Cpp Class

Contents :

CWGenCross Class Identification :

Contact	: at desy.de - johannes.blume
Class Family	: Miscellaneous
Platform	: Unix Like
Bus	: Not Applicable
Manufacturer	: none
Manufacturer ref. :	

CWGenCross Class Inheritance :

- Tango::DeviceImpl
  - CWGenCross

CWGenCross Class Description :

Device to control a single crosswire

CWGenCross Properties :

There is no class properties

Device Properties			
Name	**Description**	**Type**	**Default Value**
ControlDevice	Tango device name of Crosswire controler device (CWGenCtrl)	String	none
CrossID	Identifier for crosswire (1 -> maximum number of supported crosswires)	int	none

CWGenCross 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.

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	..

CWGenCross Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
Visible	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	O = crosswire is not visible\n1 = crosswire is visible
Selected	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	O = crosswire is not selected\n1 = crosswire is selected
X	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	horizontal position of

Y	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	crosswire vertical position of crosswire
Width	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	width (in V lines) of crosswire
Height	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	height (in TV lines) of crosswire
Brightness	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	brighness of crosswire\nthe brightness value can change depending on whether the \ncrosswire is selected or not

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There is no dynamic attribute defined.

Attribute Visible :

O = crosswire is not visible\n1 = crosswire is visible

Attribute Definition			Attribute Properties			Attribute Event Criteria	
Attribute Type	Scalar		label			Periodic	Not set
R/W Type	READ_WRITE		unit			Relative Change	Not set
Data Type	Tango::DEV_LONG		standard unit			Absolute Change	Not set
Display Level	OPERATOR		display unit				
			format				
Inherited	false		max_value	1		Archive Periodic	Not set
Abstract	false		min_value	0		Archive Relative Change	Not
			max_alarm				

Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

	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 Selected :

O = crosswire is not selected\n1 = crosswire is selected

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	1
min_value	0
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 X :

horizontal position of crosswire

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	584
min_value	0
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 Y :

vertical position of crosswire

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	784
min_value	0
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 Width :

width (in V lines) of crosswire

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	3

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

Attribute Definition	
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

Attribute Properties	
min_value	0
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
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 Height :

height (in TV lines) of crosswire

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	1
min_value	0
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 Brightness :

brighness of crosswire\nthe brightness value can change depending on whether the \ncrosswire is selected or not

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	• FAULT
Write allowed for	All states

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	
max_value	255
min_value	0
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

CWGenCross Class States	
Name	**Description**
ON	Device is running
FAULT	Device is faulty