



TANGO
Device
Server

CWGenCross User's Guide

CWGenCross Class

Revision: - Author: jblume
Implemented in C++

Introduction:

Device to control a single crosswire

Class Inheritance:

- Tango::Device_4Impl
 - CWGenCross

Properties:

Device Properties		
Property name	Property type	Description
ControlDevice	Tango::DEV_STRING	Tango device name of Crosswire controler device (CWGenCtrl)
CrossID	Tango::DEV_LONG	Identifier for crosswire (1 -> maximum number of supported crosswires)

Device Properties Default Values:

Property Name	Default Values
ControlDevice	No default value
CrossID	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Device is running
FAULT	Device is faulty

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Visible: 0 = crosswire is not visible 1 = crosswire is visible	DEV_LONG	READ_WRITE	No
Selected: 0 = crosswire is not selected 1 = crosswire is selected	DEV_LONG	READ_WRITE	No
X: horizontal position of crosswire	DEV_LONG	READ_WRITE	No
Y: vertical position of crosswire	DEV_LONG	READ_WRITE	No
Width: width (in V lines) of crosswire	DEV_LONG	READ_WRITE	No
Height: height (in TV lines) of crosswire	DEV_LONG	READ_WRITE	No
Brightness: brightness of crosswire the brightness value can change depending on whether the crosswire is selected or not	DEV_LONG	READ_WRITE	No

Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection.
After an Init command executed on a device, it is not necessary for client to re-connect to the device.
This command first calls the device *delete_device()* method and then execute its *init_device()* method.
For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::ON
 - Tango::FAULT

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code

- **Command allowed for:**

- Tango::ON
- Tango::FAULT

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

- **Argin:**

DEV_VOID : none.

- **Argout:**

CONST_DEV_STRING : Status description

- **Command allowed for:**

- Tango::ON
- Tango::FAULT

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