



TANGO
Device
Server

TriggerGauge User's Guide

TriggerGauge Class

Revision: release_1_0_1 - Author: coquet
Implemented in C++

Introduction:

This generic DS drives one VAT Trigger

Class Inheritance:

- Tango::Device_3Impl
 - TriggerGauge

Properties:

Device Properties

Property name	Property type	Description
Url	Tango::DEV_STRING	Device name of the PLC Server
DBNumber	Tango::DEV_LONG	Device representative DataBlock number
InputOffset	Tango::DEV_LONG	Input offset of the beginning of the data in the DB
InputLength	Tango::DEV_SHORT	Input length of the data in the DB
OutputOffset	Tango::DEV_LONG	Output offset of the beginning of the data in the DB
OutputLength	Tango::DEV_SHORT	Output length of the data in the DB
HardwarePollingTime	Tango::DEV_LONG	variables will be refreshed by hardware reading every HardwarePollingTime. given in : 1/10 sec. example : 34 sec gives 3.4 sec between hardware reading accesses Default : 10 (1 second

Device Properties Default Values:

Property Name	Default Values
Url	No default value
DBNumber	No default value
InputOffset	No default value
InputLength	No default value
OutputOffset	No default value
OutputLength	No default value
HardwarePollingTime	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Gauge is ON if BSV_Allumage is TRUE
OFF	Gauge is OFF if BSV_Allumage is FALSE
ALARM	Pressure is above AlarmPressure value Read from BSV_Alarme
UNKNOWN	Communication is broken

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
isOutGoingSecurityEnabled: true if outgoing security is enabled. if enabled trigger can generate a vacuum Interlock	DEV_BOOLEAN	READ	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
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
EnableOutGoingSecurity	DEV_VOID	DEV_VOID
GetSecurityMode	DEV_VOID	DEV_STRING
DisableOutGoingSecurity	DEV_VOID	DEV_VOID
AlarmAck	DEV_VOID	DEV_VOID

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::OFF
- Tango::ALARM
- Tango::UNKNOWN

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::OFF
- Tango::ALARM
- Tango::UNKNOWN

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::OFF
- Tango::ALARM
- Tango::UNKNOWN

4 - On

● **Description:** Set gauge ON Act on BSC_Allumage

● **Argin:**

DEV_VOID :

● **Argout:**

DEV_VOID :

● **Command allowed for:**

- Tango::ON
- Tango::OFF

- Tango::ALARM
- Tango::UNKNOWN

5 - Off

- **Description:** Set gauge OFF Act on BSC_Allumage
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

6 - EnableOutGoingSecurity

- **Description:** Enable outgoing security Act on BSC_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

7 - GetSecurityMode

- **Description:** Returns the security mode as string either Outgoing Security ON / Outgoing Security OFF read from BSV_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_STRING :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

8 - DisableOutGoingSecurity

- **Description:** Disable outgoing security Act on BSC_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

9 - AlarmAck

- **Description:** alarm acknowledge
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

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Status	DEV_VOID	CONST_DEV_STRING
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
EnableOutGoingSecurity	DEV_VOID	DEV_VOID
GetSecurityMode	DEV_VOID	DEV_STRING
DisableOutGoingSecurity	DEV_VOID	DEV_VOID
AlarmAck	DEV_VOID	DEV_VOID

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The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**

DEV_VOID : none.

● **Command allowed for:**

- Tango::ON
- Tango::OFF
- Tango::ALARM
- Tango::UNKNOWN

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::OFF
- Tango::ALARM
- Tango::UNKNOWN

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::OFF
- Tango::ALARM
- Tango::UNKNOWN

4 - On

● **Description:** Set gauge ON Act on BSC_Allumage

● **Argin:**

DEV_VOID :

● **Argout:**

DEV_VOID :

● **Command allowed for:**

- Tango::ON
- Tango::OFF

- Tango::ALARM
- Tango::UNKNOWN

5 - Off

- **Description:** Set gauge OFF Act on BSC_Allumage
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

6 - EnableOutGoingSecurity

- **Description:** Enable outgoing security Act on BSC_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

7 - GetSecurityMode

- **Description:** Returns the security mode as string either Outgoing Security ON / Outgoing Security OFF read from BSV_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_STRING :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

8 - DisableOutGoingSecurity

- **Description:** Disable outgoing security Act on BSC_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

9 - AlarmAck

- **Description:** alarm acknowledge
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

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[Link to Non-frame version.](#)



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TriggerGauge

Device Commands Description

TriggerGauge Class

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- **Argin:**
DEV_VOID : none.
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- **Command allowed for:**
 - Tango::ON
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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::OFF
- Tango::ALARM
- Tango::UNKNOWN

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::OFF
- Tango::ALARM
- Tango::UNKNOWN

4 - On

- **Description:** Set gauge ON Act on BSC_Allumage

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::ON
- Tango::OFF
- Tango::ALARM
- Tango::UNKNOWN

5 - Off

- **Description:** Set gauge OFF Act on BSC_Allumage
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

6 - EnableOutGoingSecurity

- **Description:** Enable outgoing security Act on BSC_SecuriteSortante
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
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- **Description:** Returns the security mode as string either Outgoing Security ON / Outgoing Security OFF read from BSV_SecuriteSortante
- **Argin:**
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- **Argout:**
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 - Tango::ON
 - Tango::OFF

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- Tango::UNKNOWN

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- **Description:** Disable outgoing security Act on BSC_SeuriteSortante
- **Argin:**
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- **Argout:**
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- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
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 - Tango::UNKNOWN

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- **Description:** alarm acknowledge
- **Argin:**
DEV_VOID :
- **Argout:**
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- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::ALARM
 - Tango::UNKNOWN

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